#### DOCUMENT RESUME

ED 255 597

UD 024 145

TITLE Hawaiian Studies Curriculum Guide. Grade 4.

INSTITUTION Hawaii State Dept. of Education, Honolulu. Office of

Instructional Services. .

PUB DATE Apr 84 NOTE 49p.

PUB TYPE uides - Classroom Use - Guides (For Teachers) (052)

FDRS PRICE MF03/PC26 Plus Postage.

DESCRIPTORS Course Content; Cultural Awareness; \*Culture;

Curriculum Guides; Elementary Education; Family Role;

Food; \*Geography; \*Grade 4; Hawaiian; Hawaiians;

Housing; Instructional Materials; Migration;

Recreational Activities; Religion; Social Structure;

\*State History

IDENTIFIERS \*Hawaii; \*Hawaiian Studies

#### ABSTRACT

This curriculum guide to Hawaiian Studies for fourth graders is designed to be used in conjunction with a social studies quide called "Early Hawaiian Life." The curriculum guide is divided into ten units dealing with the following topics: geography; migration-canoe building; land division; society and government -- family; society and government -- social structure; society and government--religion; food--agriculture; food--fishing; shelter; and kapa (barkcloth). Each unit is preceded by an overview section which presents at a glance the subject areas into which the Hawaiian Studies instruction is integrated (social studies, science, language arts, health, music art, games and recreation, and in one unit, math); the major lesson topics taken up within each subject area; student objectives; and references to unit appendices which contain teacher/student readings and worksheets, teacher background material, and songs and illustrations. The overview is followed by instructional activities and the appendices. An introduction to the quide includes discussions of the role of the teacher and the Kupuna (Hawaiian-speaking elders) in the program, and of the study of culture through dramatic inquiry. General appendices contain basic Hawaiian vocabulary lists, maps, a list of Hawaiian concepts depicted in the guide's artwork, and bibliographic materials. (KH)



U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

This document has been reproduced as received from the person or organization originating it.

(i) Minor changes have been made to improve reproduction quality.

Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

1. Jaun

Hawaiian State Dept.

Educ. Office of Juste. Sv.
TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

### BEST COPY AVAILABLE



# The Honorable George R. Ariyoshi Governor, State of Hawaii

#### BOARD OF EDUCATION

Noboru Yonamine, Chairperson
John Penebacker, First Vice-Chairperson
Sherwood M. Hara, Second Vice-Chairperson

Rev. Darrow L.K., Alona Margaret K. Apo Mako Araki Dr. Hatsuko F. Kawahara June C. Leong Janie Nakamatsu, J.D. Meyer M. Ueoka William A.K. Waters Randal Yoshida Dr. Nancy Foon Young

Francis M. Hatanaka, Acting Superintendent of Education Dr. Margaret Y. Oda; Acting Deputy Superintendent

Bartholomew A. Kane, State Librarian

Claudia Chun, Acting Assistant Superintendent
Office of Instructional Services

Vernon H. Honda, Assistant Superintendent Office of Business Services

Albert Yoshii, Acting Assistant Superintendent Office of Personnel Services

Gordon Kuwada, Acting District Superintendent Central District Office

Lokelani Lindsey District Superintendent Maui District Office

Dr. Kiyoto Miziiba, District Superintendent Hawaii District Office

Dr. Mitsugi Nakashima, Qistrict Superinterident Kauai District Office

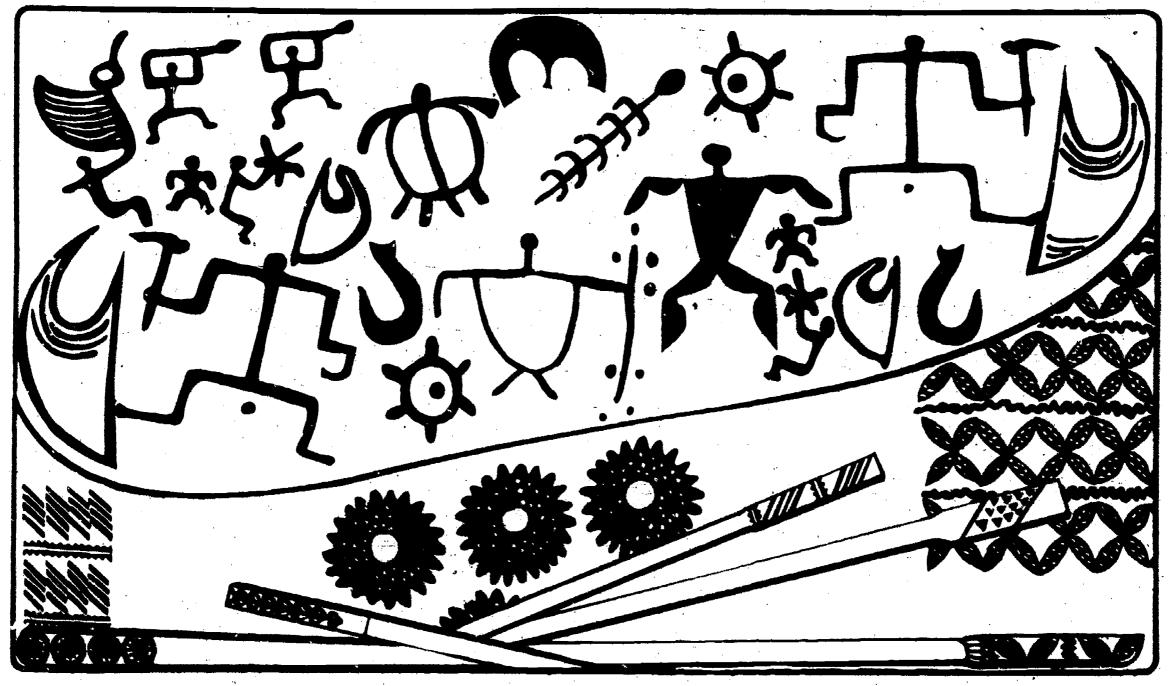
Andy Nii, District Superintendent Leeward District Office

Claudio Suyat Acting District Superintendent Honolulu District Office

Kengo Takata, District Superintendent Windward District Office



# Hawaiian Studies Curriculum Guide



Office of instructional Services/General Education Branch • Department of Education State of Hawaii • RS 84-6010 • April 1984

**GRADE 4** 



#### HAWAIIAN STUDIES CURRICULUM GUIDE. GRADE

HAWAIIAN	SUTDIES I	PROGRAM	
189 Luna 1	ilo Home	°d., 2nd	floor
Honolulu.	Hawai'i	96825	

Tel	• `	395-8782
161		777-0106

EVALUATION NEEDED BY JUNE	.15.	. 1985
---------------------------	------	--------

EVAL	HATTON	CUDM	

(Photocopies	may be	used.
--------------	--------	-------

Name (optional)	:
School/Office	:
Grade/Subjects Taught	:
Nate	•

Aloha kakou! As users of this Curriculum Guide, teachers and kupuna teaching in the Hawaiian Studies program are requested to kokua the Office of Instructional Services Hawaiian Studies program staff by taking the time to fill out this evaluation form after trying out the activities detailed in this quide. Please return the completed form to the address given above by June 15, 1985 so that comments can be used for future revisions of the quide and for preparation and presentation of appropriate and effective future inservice training activities based on this curriculum quide.

This guide must be used in conjunction with the grade 4 social studies guide, Early Hawaiian Life. Both guides were written by the Hawaiian Studies Curriculum Developer, a former fourth grade teacher. The purpose of this effort has been to provide fourth grade teachers with detailed lesson plans integrating instruction of Hawai'i-oriented content to support the teaching of concepts, skills, processes and values of the various general education program areas included in the units of this guide.

Suggestions and comments relating to content details, techniques for presenting a lesson, appropriate references, collaborative planning and lesson presentation by teachers/kupuna. audio-visual instructional aids and any other concerns will be welcome. Additional sheets may be added.

In this section, please circle the rating number which is most appropriate. Comments may be made in the margin. Rating should be/made on a scale of 1 to 5: 1-Strongly Agree, 2-Agree, 3-Undecided/No Opinion, 4-Disagree and 5-Strongly Disagree.

		SA	A	Ū	D	SD	·	Comments
1.	The material included in this guide is appropriate for grade 4.	1	2	3	4	5		
2.	The units provide enough activities to carry out Hawaiian studies instruction throughout the entire school year.	. 1	2	3	4.	5		
3	The scope of the work in this guide is overwhelming to me.	. 1	2	3 .	4	5		
4.	In general, the supporting materials and references made me feel more comfortable in using this guide.	1	2	3	4	5		
5.	The overviews for each unit were helpful.	1	2	3	4	5	•	
6.	The Learner Objectives from the <u>Hawaiian Studies Program Guide</u> were easy to locate in the overviews for each unit.	1	2	3	4	5	· ·	
7.	In general, the work planned for grade 4 is made easier with the support of a <u>kupuna</u> teaching with me.	7 1	2	3	4	5		
8.	In general, I am satisfied with this guide.	. 1	2	3	4	5		

B. In this section, please feel free to expand upon your critiques, comments and suggestions. Additional sheets may be attached.

Unit I:

Unit II/III:

Unit IV:

Unit V<sup>a</sup>:

Vp.

vc.

Unit VI:

Unit VII:

Unit VIII:

Unit IX:

Vocabulary Lists:

Other comments:

#### **FOREWORD**

This <u>Hawaiian Studies Curriculum Guide</u>, <u>Grade 4</u> is the companion document to the social studies guide, <u>Early Hawaiian Life</u>, produced by the <u>Office of Instructional Services in August 1981</u>. This guide includes the <u>other program areas into which Hawaiian studies content has been integrated</u>. They are science, language arts, music, health, food and nutrition, art, games and recreation along with mathematics in one of the units.

Grade 4 has long been the grade level at which Hawaiian history, values, gultural practices, songs, dances and language have been taught to a certain extent in the public elementary schools. The Hawaiian Studies curriculum is designed to broaden that traditional course of study by providing specific learner objectives to be addressed during the year's instruction, detailed instructional activities integrated into the various subject areas and a great amount of teacher and student reference materials, games, worksheets, songs, stories and visual aids included as appendices to each unit. This latter is done in recognition that today's teachers are responsible for teaching a tremendous amount of knowledge, concepts, values, skills and behaviors with precious little time and energy available for doing the research needed to find the kinds of materials available at their fingertips in this guide.

As with any other State in the Union, the State of Hawai'i has mandated that the history and culture, including language, of our state be studied. In kindergarten through third grade, students are to study about our island state in relation to the Hawaiian and other ethnic cultures which blend to form our viable, unique local lifestyle. By the time the students reach the fourth grade, their intellectual maturity and developed sense of chronology permit them to study and understand various aspects of the culture of the original settlers of this <u>'aina</u> (land).

Teachers are encouraged to collaborate with their assigned <u>kūpuna</u> (Hawaiian speaking elders) to create an <u>'ohana</u> (family) environment in the classroom where the affective concepts detailed in this guide are used to heighten feelings of self worth and interpersonal esteem. As the students progress in this very important stage of their Hawaiian studies instruction, we hope that your students will acquire not only cognitive knowlege of pre-contact Hawai'i but, more importantly, a good attitude about learning which will motivate them to strive for knowledge and give them a better understanding about themselves and others in our multi-ethnic, multi-cultural native or adopted 'āina, Hawai'i nei.

Francis M. Hatanaka Acting Superintendent

#### **ACKNOWLEDGEMENTS**

The Department of Education is pleased to acknowledge the <u>kokua</u> of a number of people, agencies and institutions that contributed to the development and final realization of this <u>Hawaiian Studies Curriculum Guide</u>, <u>Grade 4</u>.

Daryl-Jean Mahealani Pescaia, Hawaiian Studies Curriculum Developer, who headed the development effort with assistance from Margaret Young, a fourth grade teacher at Pauoa Elementary School.

Edwina Noelani Māhoe, Hawaiian Studies Staff Developer, who provided research support for the development of this curriculum guide and who assisted in the final editing and revision of this official version.

The Kamehameha Schools, Bernice P. Bishop Museum, the Hawai'i State Department of Health, the University of Hawai'i, the University Press of Hawai'i, the Polynesian Voyaging Society and all of the individual copyright holders cited herein who graciously permitted the Department to reprint important references for teacher and student use.

The following Educational Specialists in the Office of Instructional Services, General Education Branch, who reviewed and critiqued the material in this curriculum guide and who provided invaluable suggestions:

Dr. Elaine Takenaka, Social Studies

Mr. Miles Muraoka, Science

Mr. John Hawkins, Environmental Education

Ms. Ann Port, Language Arts

Ms. Marion 'Ane'e'aina Todu, Music

Ms. Rowena Kanaukapu Keaka, Ho'onani Artmobile

Mr. Stanley Yamamoto, Art

Ms. Lynda Asato, Health

Ms. Deanna Helber, Nutrition Education
Ms. Katherine Yamane, Physical Education

Robert Lokomaika'iokalani Snakenberg, Educational Specialist, Hawaiian Studies, who guided the development and revision of this curriculum guide and who was responsible for quality control and editing of this document.

Dr. Mildred Higashi, Administrator, Science and Humanities Section, who provided invaluable assistance and advice to the developers and editor in final preparation of this document for printing.

All the teachers who used and critiqued the original draft of this guide.

Ms. Annette Dutdut, Secretary, Hawaiian Studies Program who coordinated the typing of the drafts of this guide with kokua from the following General Education Branch secretaries: Emalia Keohokalole, Amy Morikawa, Chiereen Kato, Gayle Miyashiro, Jane Morishige and Joyce Torres.



13

ii



The Hawaiian Studies Program Guide was written in response to the 1978 Constitutional amendment which mandates that "the State shall promote the study of Hawaiian culture, history and language." (Article X, Section 4) The total elementary school program is described in the program guide with learner objectives for each grade level, K-6. The learner objectives were developed from Part I and Part II Performance Expectations (PEs) which were found in Student Performance Expectations of the Foundation Program, RS78-6054, August 1978, Office of Instructional Services.

While elements of the Hawaiian Studies Program apply to each of the eight Foundation Program Objectives (FPOs), those FPOs most critically addressed by the program include:

FPO II	Develon	nneitiva	self-concept
rru ii	Develop	DUSILIVE	ZG I I - CONCEDE

FPO III Develop decision-making and problem-solving skills

FPO V Develop physical and emotional health

FPO VII Develop a continually growing philosophy that reflects responsibility to self as well as to others

FPO VIII Develop creative potential and aesthetic sensitivity

The <u>Hawaiian Studies Curriculum Guides</u>, Grades K-6, have been designed to provide suggested activities and educational experiences within a Hawaiian cultural context which will help each student to develop an understanding of self and a sense of self-worth along with exposure to the bigger world of family and society in an upward spiraling continuum.

This continuum takes the child through an ever-enlarging study of self, self within the immediate 'ohana (family), the immediate 'ohana within the extended tohana-type lifestyle

enjoyed by many of our students from different ethnic backgrounds, the 'ohana within the local community and, finally in Grade 3, the local community in comparison to communities throughout Hawai'i and the world.

The Department intends that children in the lower elementary grades learn about Hawaiian culture as it has survived into this modern age around us. Since many of these children in grades K-3 can not differentiate between events taking place in a time frame of two hundred years ago and those of a year or two ago, it was decided to delay the study of early Hawaiian life until their sense of chronology and history reached a certain level of development. Therefore, it is not until the fourth grade that Hawaiian culture of the pre-European contact era is studied in great detail. This is a noisytent with the social studies curriculum for that grade level and serves to lessen any disruption to the established curriculum that the introduction of the integrated Hawaiian Studies curriculum might pose.

Students in the fifth and sixth grades study U.S. hist of and world cultures respectively in their social studies control of the studies, students in the fifth grade have approximately to contrast their U.S. history study with a perallel study of Hawai'i during the same era. The four units cover Migration; Comparative Culture; Outsiders/Diseases/Immigration; and Hawaiian Poetry, Music and Dance. Hawai'i is a part of the United States and is studied as such. In the sixth grade, the students have an opportunity to study various cultures of the world in a Pan-Pacific perspective and the relationship of these cultures to Hawaiian culture. The other two important units of study at this grade level focus on the important resources, ka wai (fresh water) and ka aina (the land).

# BEST COPY AVAILABLE



This Hawaiian Studies Curriculum Guide, Grade 4, is to be used along with the fourth grade social studies guide, Early Hawaiian Life. There are a total of ten different units or subunits in this guide and each has an overview showing the unit emphases, learner activities, learner objectives and appendices to help teachers and kupuna in planning interesting and effective lessons. These units include:

Unit I: Geography

Unit II/III: Migration - Canoe Building

Unit IV: Land Division

Unit Va: Society and Government - 'Ohana

Unit YD: Society and Government - Social Structure

Unit V<sup>C</sup>: Society and Government - Religion

Unit VI: Food - Agriculture

Unit VII: Food - Fishing

Unit VIII: Shelter Unit IX: Kapa

Each of these units has a corresponding unit in <a href="Early Hawaiian">Early Hawaiian</a>
Life and together they provide a comprehensive coverage of
Tearner objectives in the various subject areas. The emphases of each subject area in the unit are listed in the unit's overview. Teachers should ead the overviews for a particular unit in both documents before planning their instructional activities. Since the use of the inquiry process, including dramatic inquiry, is an important part of the instructional methodology in both documents, a description of the process is included in the two guides.

This Hawai an Studies Curriculum Guide focuses on presenting the culture, language and history of the early Hawaiians in an integrated course of study. The instructional activities were developed so that they could be taught in the various subject areas in a manner that unified the instruction and focused it in a specific topic.

3 th of the state of

For example, if a teacher wishes to instruct a social studies unit on the importance of <u>kalo</u> (<u>taro</u>) as a food product of the Hawaiians whose cultivation contributed to the economic stability of the society, there are related instructional activities to be addressed through the other subject areas that are presented in the columns over any two-page spread in the appropriate unit.

- In science, the students can study specific technology employed in kalo production along with the importance of water and the hydrologic cycle.
- In language arts, the students learn appropriate Hawaiian and English vocabulary and do creative writing.
- In food and nutrition, the students study the nutritional value of the traditional Hawaiian staple foods and their place in the modern diet.
- In health, the students do nesearch on how plant foods and diet affect health and on what medicinal plants, were used by the Hawaiians.
- In music, the students compose their own lyrics about <u>kalo</u> and <u>wai</u> (fresh water) and sing traditional songs concerning these subjects.
- In art, the students engage in crafts work relating to these topics and create artworks using various media to illustrate these themes.
- In games and recreation, the students dance to a kalo cultivation song to learn what activities were involved in the planting and harvesting process and, if possible, take a field trip to an actual lo'i kalo (taro patch) to experience some of the cultivation activities.

Appendices to the description include readings and worksheets for teachers and students. Much acher background reference material is also in the appendices as ag with songs and illustrations. Basic vocabu



ulary lists and maps are included at the end of the guide under "General Appendices." Bibliographic lists for teacher and student reference are included along with a detailed list of songs and chants included in this guide.

The Hawaiian vocabulary which is presented in lists for grades four to kindergarten was compiled with input from a number of program personnel. It is desirable that teachers and kupuna structure their lessons so that these Hawaiian words are learned by the students before moving up to fifth grade. In general, active mastery of the words listed is expected unless it is noted that exposure is sufficient at this grade level.

Student mastery of Hawaiian vocabulary is just one aspect of the learner outcomes expected in the Hawaiian Studies program. It is not necessarily a major aspect but it is one area in which cognitive learning gains can be measured through vocabulary tests at various grade levels. The philosophy of the program includes the thought that a culture is best learned through the language of that culture.

Important affective domain concepts to be addressed in the Hawaiian Studies program include:

Hawaiian concepts of aloha (love/greetings); kōkua (help, support); hau'oli (happiness); olakino maika'i (good health, well being); 'ike (recognition, feelings, understanding); kūkākūkā (reconciliation, talking things over); kuleana (responsibility, roles); kapu (rules, social control); alu like (social interaction, working together); hana (work); laulima (interdependence, cooperation); lōkahi (harmony in living); 'imi na'auao (seeking after knowledge); alaka'i (leadership); ho'okipa (hospitality); hilina'i (trustworthiness); no'eau (skillfulness, artistry, wisdom); mālama (conservation); and, aloha 'āina (love for the land and the people living on it).

There are many activities promoting these concepts provided to the teacher and <u>kupuna</u> throughout this guide. These are offered through an integrative, thematic approach so that the instructional activities can be carried out through a number of subject areas, addressing the concerns and performance expectations of the particular subject area and Hawaiian Studies at the same time.

These instructional activities have been reviewed and critiqued by the various educational specialists in the General Education Branch of the Office of Instructional Services whose valuable suggestions have strengthened the Hawaiian Studies curriculum presented here.

Instruction is to be carried out by the classroom teachers with the assistance of Hawaiian-speaking kūpuna (elders). These community resources have the expertise in Hawaiian culture, including language, and they are an essential element of the program at the elementary level. They are to teach Hawaiian language through an informal, culture-based aural-oral method of teaching in the beginning with progression made during the year toward a more formalized style of instruction focusing on reading and writing skills incorporating lessons, topics and plans developed collaboratively with the classroom teachers.

One major reason for hiring uncertificated community resources to teach in the public school classrooms is that these kupuna possess expertise in Hawaiian language and other aspects of Hawaiian culture which complements the expertise of the classroom teacher in presenting a well-rounded and integrated program of study.

During training sessions, it is stressed to the <u>kūpuna</u> that they should structure their lessons based on ideas received from the teachers in collaborative planning sessions or through written communications if face-to-face meetings are difficult to arrange because of time constraints. They have the same curriculum guides used by the teachers and references to specific lessons and activities will help them to plan effective lessons which can be reinforced by the teacher during other instructional periods.

It should be noted that every attempt has been made to keep the content of this guide as free from sex-role bias as possible. However, roles defined by sex were an important and accepted part of the society of the early Hawaiians and this may be seen in some of the stories, pictures, or teacher reference materials. When appropriate, teachers may wish to point out such differences in early Hawaiian society and modern American society.

#### THE ROLE OF THE TEACHER IN THE HAWAIIAN STUDIES PROGRAM

The class som teacher has the most important role in the implementation of the Hawaiian Studies Program in the cinsersom. Through the use of this guide and other resources, the teacher plays the key role in the integration of Hawaiian studies curricular materials and instruction. A teacher is free to choose those activities in this guide that meet his/her expectations and plan accordingly. The kupuna is an important part of this teacher planning because the one hour instruction per week per class, which most kupuna will be alloted, should be instruction that enriches the teacher's instructional activities.

It is the responsibility of the teacher to:

- provide instructional leadership to the <u>kupuna</u> in the classroom:
- work cooperatively with the <u>kupuna</u> to develop short- and long-range lesson plans based on the state's curriculum plans and the needs of the particular group of students;
- monitor the instruction of the <u>kupuna</u> in order to give the <u>kupuna</u> the benefit of the teacher's experience in lesson preparation, presentation and evaluation;
- participate in the instruction of the class in order to be able to follow up, review and reinforce those concepts, practices and vocabulary taught by the <u>kupuna</u>;
- assist the principal in the evaluation of the work of the kupuna:
- include, in the teacher's own instruction, those aspects of Hawaiian studies as are presented in the curricular materials.

#### THE ROLE OF THE KUPUNA IN THE HAWAIIAN STUDIES PROGRAM

The <u>kupuna</u> has an important role in the Hawaiian Studies Program. Although a number of <u>kupuna</u> teaching in the schools are over the state's mandatory retirement age for teachers, they have been accepted to work as Part-Time Teachers (PTT) at the current rate of compensation in this program because they represent within themselves the kinds of qualities and knowledge to which we want our students to have exposure.

Although some of the <u>kupuna</u> are not readers nor writers of Hawaiian at a sophisticated level, and the majority of them did not complete their own secondary education, they nonetheless speak Hawaiian and have an education for living which they have picked up in their many decades of living in this Hawaiian environment. Most of them grew up in the households of their own <u>kupuna</u> (grandparents), learning to speak Hawaiian as a native language and participating in the kinds of Hawaiian practices which are now only available to our teachers through written descriptions in books.

Most of them have as part of their own psychological and cultural make-up the kinds of Hawaiian values which are the subject matter of the Affective Strand of the Hawaiian\_Studies Program. Obviously, then, the selection of bonafide kupuna for a school is a very important responsibility of school/district personnel.

It is the responsibility of the kupuna in this program.to:

- teach the Hawaiian language component of Hawaiian Studies,
- work closely with the classroom teacher in planning lessons which present Hawaiian language and culture to the students in accordance with the year-long plan of instruction of the teacher for the particular grade level;
- attend inservice training sessions in order to learn some of the skills needed for teaching in the public school classroom:
- plan, carry out and evaluate the <u>kupuna</u>'s own instruction;
- work with the other kupuna in the program to improve and expand cultural knowledge and Hawaiian language speaking ability on the part of all of the kupuna;

• work cooperatively with district and state personnel who are charged with managing the program.

#### COLLABORATION BETWEEN TEACHER AND KUPUNA

Teachers and <u>kupuna</u> are asked to draw upon their own experience and common sense in deciding what elements of these curriculum plans should be presented to the students of a particular school and classroom. <u>Readiness is the key</u>. Community resources and student interest are two other important aspects in deciding what kinds of lessons to plan and present.

The Department's Hawaiian Studies program seeks to give some validation and worth to the culture of the ancestors of many of the children in our public school system. It is hoped that the spark of motivation to learn through the academic system with the help of non-college trained teachers such as kupuna and other community persons will be struck and grow strong in many of our students.

The program provides the opportunity for children to learn from kūpuna and kumu (teachers) and the kūpuna and kumu in turn to learn a great deal from one another and from their students and the students' families.

#### HAWAIIAN STUDIES PROGRAM ADMINISTRATIVE INFORMATION

Different school districts and communities located throughout the State of Hawai'i have varying needs and expectations relating to the Hawaiian Studies Program. Some of the factors affecting needs and expectations are the proportion of Hawaiians in the school population; the nature of the community, rural or urban; location of the school relative to the sea or to

Hawaiian agricultural sites; established Hawaiian areas versus newly developed subdivision areas; and, the interest of the school's faculty and administration in the program.

In some areas, qualified <u>kupuna</u> may be abundantly available, whereas in other areas administrators may not be sure where to begin looking. The following section is meant to provide some helpful suggestions on what to look for in a <u>kupuna</u>; where and how to identify and recruit <u>kupuna</u>; a recommended interview and selection process; and, some points to consider when scheduling <u>kupuna</u> instruction.

#### Criteria for Selection of Kupuna

The criteria identified in the initial OIS/Hawaiian Studies "Training Plan - Kupuna" (October 1980) for the pilot year 1980-81 reflect the kind of person that should be identified, recruited, interviewed and selected for the Hawaiian Studies Program. Selected kupuna reflect the following characteristics:

- 1. is a native speaker and fluent or near-fluent in the Hawaiian language:
- 2. is knowledgeable to some extent about Hawaiian culture in general and has knowledge of local history and cultural practices in particular;
- 3. is physically able to travel and to work on a regular basis in the classroom;
- 4. is able to develop rapport with classroom teachers and students;
- 5. is able to integrate Hawaiian language activities into the classroom program;
- 6. is able to relate other classroom activities into the Hawaiian language component of the program;

vii

- 7. is willing and able to work collaboratively with the teacher(s) in order to plan lessons and activities which address the learner objectives of the Hawaiian Studies Program for the various strands in the particular grade level(s) involved;
- 8. is willing and able to share expertise in Hawaiian oriented activities within the school:
- 9. is willing to participate in classroom activities within the school; and,
- 10. is able to follow school procedures.

#### Identification of Kupuna

Hawaiian elders and those of other ethnic backgrounds who are fluent native speakers of Hawaiian can be sought and identifie in a number of ways. Some of these include:

- Contact the Hawaiian Civic Club, Senior Citizens group,
   or other such community organizations.
- Discuss the school's need with the <u>kahu</u> (pastor) of local Hawaiian churches.
- Ask for referrals from agencies such as Alu Like, Hawaiian Homes Department, and Queen Lili'uokalani Children's Center.
- Put an advertisement for Hawaiian speaking <u>kupuna</u> in the daily newspapers and in the community newspapers.
- Ask for recommendations from the school community--PTA, custodial and cafeteria staff, teachers, booster clubs, and others.
- Broach the subject with likely looking prospects whom one sees in stores, at the beach, in the school office and elsewhere with the understanding that final selection is based on the interviewing process.

#### Interviewing and Selection of Kupuna

Many, but not all, older Hawaiians in their late fifties, sixties and seventies can still speak the Hawaiian language. It should not, however, be assumed that every older Hawaiian can speak the language. Merely asking in English whether a prospective kupuna speaks Hawaiian is not a safe way of assuring selection of high quality Hay an speaking kupuna.

All candidates for the <u>kupuna</u> positions should be interviewed by a board of three or four interviewers, one of whom should be an acknowledged fluent Hawaiian speaker. Assistance is readily available from the state staff if needed for this.

In the course of asking a set of prepared questions during the interview, the Hawaiian speaking interviewer should ask a question or series of questions dealing with the work of the prospective kupuna-teacher. This should be done within a conversational cortext and the questions should not be too technical in nature since the kupuna may lack the technical vocabulary in Hawaiian needed to discuss academic or school-related topics.

Questions could be centered around topics which the <u>kupuna</u> might ordinarily be expected to teach in a classroom situation—songs, cultivating <u>kalo</u>, fishing, picking <u>limu</u>, preparing food, etc. How the prospective <u>kupuna</u>—teacher responds must be judged by the Hawaiian speaking interviewer and that judgement should play a large part in the selection of the <u>kupuna</u> since one of the major criteria for selection is fluency or near-fluency as a native speaker of Hawaiian.

A test of reading or writing abilities in Hawaiian is not warranted since the <u>kupuna</u> will be teaching in an aural-oral mode, however, all things being equal, <u>kupuna</u> who can read and write Hawaiian should be selected over those who do not since many optional learning materials for the <u>kupuna</u> relating to Hawaiian culture are available in Hawaiian language versions. The ability to read these materials from the last century and the ability to

write lesson plans based on such materials will enhance the quality of the <u>kupuna</u>'s instruction.

Interviewees whose Hawaiian language speaking abilities are in question can be referred to state staff if desired and further interviewing in Hawaiian can take place in person or on the telephone.

Selection of <u>kupuna</u> can either be made for a district pool, for specific schools or a combination of the two. Principals whose schools are involved in the program should be invited to take part in the interviews, either personally or through questions which they have submitted. The principals will presumably have referred some <u>kupuna</u> for consideration based on contacts which they are able to make within their school communities.

Experience has shown that using kūpuna from the school community can have both positive and negative aspects. They will usually know and often be related to a number of children in the school. If they are natives or long-time residents of the area, they probably know stories about the area, the school and the people who have lived and worked in the area. They may be acquainted with legends, place names, important sites and other aspects of the area which would be helpful and interesting in making the Hawaiian Studies instruction more localized. Sometimes, kūpuna and/or their families have had unpleasant associations with the school or certain teachers in the past. Principals must inform themselves of such situations so that adjustments can be made in the kūpuna selection or assignment processes or in the scheduling process at the school level.

#### Scheduling of Kupuna

The state standard for employment of Part-time Teachers (PTT) limits them to a maximum 17-hour week. Because the <u>kupuna</u> are PTT there is no provision for them to work overtime or to receive mileage or other benefits. In order to use the Personal Services funds with the most cost effectiveness, it is essential that a principal schedule a <u>kupuna</u> into classes

somewhat tightly with a minimum of lost time between classes. If teachers do not wish to release time for Hawaiian Studies instruction during the early morning hours when the children are fresh, the principal should then try to schedule the kupuna into classes between morning recess and lunch or after lunch until the end of the school day.

The optimum contact time that leads to effective learning of Hawaiian Studies seems to be approximately an hour a week. This can be divided into three 20-minute sessions for the lowest grades or two 30-minute sessions for the middle and upper elementary grades. Teachers are encouraged to cooperate by having the students ready for the kupuna and the kupuna are encouraged to have a well planned lesson which can be presented with a minimum of delays and wasted time.

Like teachers who work past 3:00 p.m. or devote their weekend time to their students' extracurricular activities, <u>kupuna</u> who get involved in the life of the school beyond the number of hours that they are scheduled, do so as volunteers.

#### HOW TO USE THIS CURRICULUM GUIDE

Each of the two units in this guide is preceded by an overview section which presents at a glance the subject areas into which the Hawaiian Studies instruction is integrated; the emphases or major lesson topics taken up within each subject area; the Hawaiian Studies Learner Objectives (from the Hawaiian Studies Program Guide) addressed in the instructional activities; and, the appendices which have been included to make teacher/student reference materials more readily available.

The same Learner Objective may be applicable and appear in the listed objectives for several subject areas. The number of Learner Objectives listed for any particular subject area does not necessarily mean that that subject area is any more important in Hawaiian Studies instruction than another.



ix

#### CULTURE STUDY THROUGH DRAMATIC INQUIRY

What is the best way to study another culture? Anthropologists say that one must take oneself out of one's culture and into another culture in order to get an inside view. One way of experiencing another culture is through the process of dramatic inquiry. This is a systematic approach to learning about another culture through dramatization. In this process, the students are encouraged to dramatize possible uses of cultural artifacts within an arranged environment and to explore ideas and inquire about the life processes of a culture.

The following outline suggests the possible sequence of activities:

1. An Arranged Environment - An array of familiar as well as unfamiliar Hawaiian artifacts and equipment is displayed. Examples:

'umeke (bowls), ko'i (adzes), 'upena (nets), lühe'e (octopus lure), 'ö'ö (digging stick), mea kaua (weapons) and mea hana (tools).

The children are invited to explore and handle the objects, to discuss and to hypothesize how the articles were used.

- 2. Dramatization -
  - A. The children select one object each and think about how that object might have been used in ancient Hawai'i.
  - B. The classroom is divided into 3 areas:
    - 1) Uka the mountains/uplands
    - 2) Kula the midlands
    - 3) Kai the sea
  - C. The children decide in which area they would have used their object if they were living in ancient Hawai'i.
  - D. They dramatize how the objects were used in their areas. A recording of a chant may be played to create an atmosphere that suggests ancient Hawaiian living.
  - E. The groups share their dramatizations with the entire class.
- 3. Expression of Needs -
  - A. The students discuss their experiences and questions are raised and recorded on charts. Record all of their questions without giving away the names of the objects.

Example:

اکے nat is

(Draw the object the child refers to; avoid giving the name of the object.)

What was

used for?

- B. The questions then become the basis for the year's program.
- C. The questions can be grouped into workable research groups by the children. Lxample: Which questions seem to go together?

X

4. Series of Learning Activities - The>teacher and students plan activities for gathering information. They also plan which area of Hawaiian culture to study first based on the students' interests and the dramatization. The activities may include:

resource speakers research - individual and group field trips audio visual research experimentation

5. Further Inquiry - The children share the information learned through participation in learning activities. This leads to further dramatizations on a higher level of thinking and the entire process repeats itself.

Once the sequence of activities has been completed, it leads back to the original situation where an arranged envirous hould be established and the cycle begun all over again dealing with new questions which the students needed to discuss, dramatize and research. These cycles continue on more complex and accurate levels which refine the students' knowledge and skills.



# 'IMI NA'AUAO

## TABLE OF CONTENTS

Foreword	•
Introduction	iii
The Role of the Teacher in the Hawa	iian Studies Program vi
The Role of the <u>Kupuna</u> in the Hawai	ian Studies Program vi
Collaboration Between Teacher & I	<u>Kupuna</u>
Criteria for Selection of Kupuna	
Identification of Kupuna	
Interviewing and Selecting Kupuna	a vi
Scheduling of Kupuna	_ vii
Collaboration between Teacher and	
Culture Study Through Dramatic Inqui	
Unit I Geography	2-25
Map skills, geology, climate	e, population
Appendix A Geologic Histor	ry of a Volcanic Island 26
B Effects of Eros	sion 27
C Hawaiian Terms	for Island Formation 28
D "How Hawai'i Wa	as Divided" (Story) 29-30
E Hula	31 – 33
F "Opae E" (Sor	ng) 34
G Nā Makani (Wind	ds) 35
H Nature Vocabula	ary 36
1 Petroglyphs	37
J Petroglyph Samp	ples 38-39



	ĸ	Basic Hula Steps	40-41
	L	"Aia Lā 'O Pele" ( <u>Hula kahiko</u> )	42
	M	How to Teach Chants/Songs	43
	N	Kāholo (Vamp) Using the 'Ili'ili	44-45
	0	"E Pele, E Pele" (Hula kahiko)	46
Units II-III	Migration - (	Canoe Building	47-71
		igration, ethnic migration, canoe building, populynesian-Hawaiian skies, winds, currents and cl	
	Appendix A	"Hoe Aku I Kou Wa'a" (Chant)	72
	В	"Navigation"	73-75
	C	Hawaiian Seabirds	<i>y</i> 76
	D	Basic Food Chart	, 77
	E	Nutritional Value of Food in Hawai'i	78-79
	F	Food for the Athlete	80-81
•	G	Myths About Food	82
	н .	Hawaiian Vocabulary for Clouds and Weather	83
·	· I	Musical Compositions about <u>Hōkūle'a</u>	34
	J	Journey of <u>Höküle'a</u> 1980	85
		•	00.00
Unit IV	Land Division		86-96
	Economic org of land and	anization - method and units of land div on, interdependence/roles of <a href="https://doi.org/10.2016/johana">johana</a> (family) <a href="https://doi.org/10.2016/johana">mber</a>	utilization 'S
•	Appendix A	Worksheet for Plant Research	97
•	В	Nā Mea Kanu	98-105



Unit V <sup>a</sup>	Society and	Government - 'Ohana	106-115
	Characteris	tics and functions of the 'ohana, 'ohana concepts	
	Appendix A	"Aloha" (Song)	116
	В	"Alu Like" (Song)	117
	· C	<u>Nā 'Ōlelo Nāne</u>	118
	D	Nā 'Ölelo No'eau	119
•	Ε	The Hawaiian Chant	120
Unit V <sup>b</sup>	Society and	Government - Social Structure	121-134
	versus that	system and monarchal government of early Hawai'i of today, class system, importance of genealogy e inoa (chants for ali'i) and mana (spiritual power)	
	Appendix A	"Lili'u E" (Song)	135
•	В	"Ka Na'i Aupuni" (Song)	136
*.	С	Mo'okū'auhau o Kamehameha	137-139
	D	Mo'okū'auhau o Kalākaua	140
•	E	Mo'okū'auhau o Kawamanakoa-Kūhiō	141
•	F.	Birth Chant for Kauikeaouli	142-150
·			
Unit V <sup>C</sup>	Society and	Government - Religion	151-171
	medicinal p	p of religion and government, symbols of royalty, lants, <u>akua (gods), 'aumākua</u> (family guardian spirits gods), and the Makahiki Festival	) and
	Appendix A	"Ho'okupu Chant"	172
	В	Ka Makahiki	174-175
	C	Medicinal Plants	176-177
	D	Birds of Hawai'i	178-179
	E	Ka Helu Hawai'i - Hawaiian Enumeration	180-181

		*
Unit VI	Food - Agriculture	182-195
	Food plants of early Hawai'i, cultivation of kalo, methods of cooking, food exchange system, importance of wai (water) in the development of communities, and conservation techniques	ie
•	Appendix A " <u>Maika'i, Mahi'ai!</u> " (Story)	196-197
	B Worksheet - Medicinal Uses of Plants	198-199
	C Nutritional Value of Hawaiian Plant Foods	200-201
	D "Huki I Ke Kalc" (Chant)	202
Unit VII.	Food - Fishing	203-231
1	Methods of fishing, areas of fishing, <u>kapu</u> and rituals, sharing system, ecosystem of fishponds, habits and anatomy of fish	ng
	Appendix A Hawaiian Seafoods	232
•	B Sea Life Report	233
-	C "Humuhumunukunukuapua'a" (Song)	234-235
	D Fashioning a Fishhook	236
••• •••	E "Life in Ancient Hawai'i - Foods" - A Supplement	237-242
	F "Kanaka Lawai'a" (Game)	243-247
	G "Go to the Head of the Fish" (Game)	248
, ·	H Answer Sheets for Appendices F/G	249-251
	I Making Hau Cordage	252
	J Fishing	253-254
Unit VIII.	<u>Shelter</u>	255-264
	The Hawaiian <u>kauhale</u> (housing compound community), location on the hale (houses), process of building, furnishings, roles of and <u>lohana</u> , choosing the correct location	f religion
•	Appendix A The Hawaiian Homestead/Pictures of Ke Kauhale	265-268
•	B <u>Ka Hale</u> (Diagram of the framework of a <u>hale</u> )	269
	C "Maika'i Ka Makani O Kohala" (Song)	270

ERIC

Full Text Provided by ERIC

	D Teaching <u>Ipu</u> Rhythms	271-272
	E Ka Mokupuni 'O O'ahu (Map)	273
	F "You Come My House" (Song)	274-275
Init IX.	<u>Kapa</u>	276-283
•	Process of making kapa, tools, resources, uses, dyes, steps invo	lved
	Appendix A Experimenting with Plant Dyes	284
	B "Hohoa Kuku" (Song)	285-286
ENERAL APPEND	OICES (	•
	Basic Vocabulary Lists, Grades 4-K	287-300
<b>\</b>	Maps:	
	The World/Islands in the Pacific Area	301
*	United States/The Hawaiian Islands	302
	A Schematic History of O'ahu	303
	Cross Section of O'ahu/Mokoli'i Island	304
	Effects of Erosion/A Geologic History of a Volcanic Island in the Pacific	305
	Contours	306
•	'Kaua'i	307-308
	O'ahu	309-310
	Maui/Kaho'olawe	311-312
£,	Maui/Moloka'i/Lãna'i	313-314
	Hawai'i	315-316
	Precipitation maps of Kaua'i, O'ahu, Hawai'i	317
•.	Precipitation maps of Maui, Moloka'i, Lana'i and Kaho'olawe	318
	Hawaiian Concepts Depicted in Artwork in this Guide	319
Bibliography o	of Teacher and Student References	320-323
	erences for Teachers	324
	Phonographic Recording References	325
list of Film F		326
Songs and Char	·	327-330
onina ana chai	xvii	•

CONTENT AREAS

#### **EMPHASES**

SOCIAL STUDIES

Map Skills
The cardinal directions: North, South, East, West
Locating places on maps using longitude and latitude
Computing distances on maps using mileage scales
Reading a variety of maps for information
Identifying geographical features: isthmus, peninsula, lake, canyon, bay, swamp, volcano

The Eight Islands
Geographical features of each island
History of the settlement and population growth
Economic development
Places of interest

SCIENCE

Geology of the Hawaiian Islands

Volcanism and erosion

Four types of islands: volcanic, coral reef, elevated reef, continental

Erosion processes

Effects of wind, rain, surf, temperature changes

Geologic formation of high volcanic islands Volcanic buildup, erosion, development of coral reefs

Coral reef study
The ecology of a Hawaiian reef
Impacts of environmental changes

#### LEARNER OBJECTIVES

#### APPENDICES

- Identifies the eight (8) major Hawaiian islands with their important mountains and locates them on a map.
- Compares the major southeastern islands in the Hawaiian chain to those islands, islets, atolls and reefs in the northwestern section of the chain.
- Identifies geographic features from a map of Hawai'i and explains how these have affected the way of life.
  - (See Early Hawaiian Life, pp. 21-22 for other objectives.)

#### (See Science in Hawai'i a Fourth Grade ETV Guide for Science objectives, pp. Dl and Tl)

- Describes the basic geologic formation of high volcanic islands such as the Hawaiian islands and other high island groups in Polynesia (Society Islands, New Zealand, the Marquesas, and the Samoan islands).
- Exhibits a curiosity and excitement about the bio-physical environment.
- Uses scientific knowledge, processes, instruments, and language to clarify values, examine issues and solve problems within a Hawaiian environment.
- Uses inquiry processes to study the Hawaiian environment.
- Researches and identifies creatures and plants of Hawai'i's sandy and rocky shores.

- Unit I A A Geological History of A Volcanic Island in the Pacific p. 26
  - B Effects of Erosion p. 27



CONTENT AREAS	EMPHASES
LANGUAGE ARTS	Creative writing Legends of origin (of natural phenomena)
	Reading and interpreting legends
	Letter writing Word associations
	Comparing Maui legends with Pele legends
· .	Reference skills
HEALTH	Effect of location and climate on the health of people  Nutritional values of seafoods from the reefs
MUSIC	Singing songs about natural phenomena with instrumental accompaniment "Hilo Hanakahi" (about the winds, rains, seas) "Ke Ānuenue" (about the rainbow, rains, plants, sun)
•	Songs of the eight islands
	Songs about reef life: "Ku'u Pūpū Kau Põhaku"
	Chants about Pele: "E Pele"
	"Aia Lā 'O Pele"
	43

#### LEARNER OBJECTIVES

#### **APPENDICES**

- Describes some of the natural phenomena in Hawai'i using their Hawaiian names.
- Describes some of the physical landmarks and attributes of Hawai'i, natural and human-made, using their Hawaiian names (cliff, mountain, fish pond, river).
- Identifies some legendary figures such as Pele, Maui and Hina, Hi'iaka and Lohi'au and discusses some of the stories connected with these figures.

- Participates in drownproofing or water safety programs.
- Recognizes the nutritional value of seafood.
- Performs from memory a simple Hawaiian chant.
- Sings selected Hawaiian songs introduced by the teacher while playing rhythmic or harmonic instruments in time with the beat. ('ukulele, ipu, pu'ili, kāla'au, kā'eke'eke or 'ili'ili.
- Creates melodies and lyrics concerning a Hawaiian theme using English and Hawaiian words, expressions and phrases.
- Indicates how much of our knowledge of former times have been learned from chants to the gods or chants of and for the chiefly class.
- Relates the importance of the chanters and dancers to life in old Hawai'i.
- Explains that chant was the original Hawaiian vocal music and that instrumental Hawaiian music, as we know it today, was influenced by all the immigrants who later came to Hawai'i bringing new ways of singing and new instruments with which to add harmonics and texture to music.

- Unit I C Hawaiian Terms for Island Formation, p. 28
  - D Story: "How Hawai'i Was Divided"
    pp. 29-30
  - H Nature Vocabulary, p. 36

- Unit I F "'Ōpae E", p. 34
  - G Na Makani (The Winds), p. 35
  - K Basic Hula Steps, pp. 40-41
  - L "Aia La 'O Pele", p. 42
  - M How to Teach Hawaiian Chants and Songs, p. 43
  - N Kāholo (Vamp) Using the 'Ili'ili,
  - 0 "E Pele, E Pele", p. 46

CONTENT AREAS

**EMPHASES** 

ART

Diorama

Petroglyphs

Sculpturing - papier maché

Collage

Producing a filmstrip

3-Dimensional art "Life on a Coral Reef"

GAMES AND RECREATION

Creative body movement

Interpretive movements depicting volcanic eruption and flow

Hawaiian games using materials from the natural environment

Dance - Hawaiian and other ethnic groups

Hula about volcanism, Pele and other natural phenomena Ethnic dances from cultures represented by students in class Hula about creatures living in the coral reef



#### LEARNER OBJECTIVES

APPENDICES

• Discusses the possibilities of petroglyphs being art, communication, and/or historical documentation.

Unit I - I Petrcglyphs, p. 37

- J Petroglyph Samples, pp. 38-39

- Performs more advanced or complicated body movement patterns in games and dances.
- Responds imaginatively to accompaniment expressing feeling or emotion.
- Creates new steps, body movements or verses to dances.

Unit I - E <u>Hula</u>, pp. 31-33



SCIENCE

- Science activities to help children understand the forces of erosion.
  - 1. Describe the four types of islands in the Pacific Ocean:
    - a. Volcanic
    - b. Coral reefs
    - c. Clevated reef islands
      - d. Continental islands

Have some pictures of these types of islands available for the children to use.

#### 2. Ask:

- a. How did such hard rock islands become inhabitable?
- b. What natural forces or phenomena caused the break-down of the rocks?
- c. What is this process called? (erosion ka 'a'ai 'āina)
- 3. Research

Geography and Geology of Hawai'i, #2, pp. 6-8, TAC 71-2306

- a. Have the children experiment and conduct research to learn more about this process of erosion...
  - the actions of air and water
  - the changes in temperature

#### LANGUAGE ARTS

HEALTH/FOOD AND NUTRITION

- Language activities that help build skill using the study of geography and geology as the basis.
  - 1. Creative writing "Legends of Origin"
    - a. Have the children think about some natural feature on their island a mountain peak, a stone formation, a hole through a mountain. Ask if anyone knows the Hawaiian equivalent for "rock, stone." Introduce the word pohaku to them and have them describe some rock formations.
    - b. Encourage them to think about how that natural formation came to be. Motivate them to jot down their thoughts on a piece of paper.
    - c. Formulate a special format for these tales by previewing other simple legends with the children. Through discussion, decide on an outline format for the legend.
      - 1) Description of the location of the landmark
      - 2) Introduction of the characters in the legend
      - 3) Buildup of the action
      - 4) Climax
      - 5) Closing

#### Music

#### ART

#### GAMES AND RECREATION

- Music activities that deal with ongs written about natural phenomena. See: Appendix Unit I-M. p. 43.
  - 1. Singing to the beat of the <u>ipu</u>. Selection: "Hilo Hanakahi" Source: Elbert and Mahce. <u>Na Mele o Hawai'i</u> Nei, p. 50.
    - a. Talk about the various winds and rains known on Hawai'i (the island)
      - 1) Makani Kuehulepo
      - 2) Makani 'Āpa'apa'a
      - 3) Ua Kanilehua
      - 4) Va Kipu'upu'u
    - b. Use the translations as presented in the book.
    - c. See Appendix Unit I-G, p. 35 for names of some winds. Listen for correctness and clarity in pronunciation. Use kupuna, if available.
    - d. Use an <u>ipu</u> to keep the beat of the song.
    - e. Teach the 'ukulele accompaniment for the song. F(2), F<sup>7</sup>(4), B<sup>b</sup>(4), F(8), G<sup>7</sup>(2), C<sup>7</sup>(2), F(4)
  - 2. Learning a song and hula with the accompaniment of the

- Art activities to illustrate projects studied in this unit on the geography and geology of Hawai'i
  - 1. Diorama see "Legend of Origin" in language arts lesson. p. 8.
    - a. Materials needed: paints, brushes, paper strips, wheat paste, rocks of different sizes, variety of other materials.
    - b. Have the children bring in their own box filled with things which they would like to have in their diorama.
    - c. Encourage them to plan their diorama on a sheet of manila paper. Talk about composition, color combinations and lines. Encourage them to be creative and innovative.
    - d. Help individuals to make good use of space.
    - e. Display the finished products in the school library along with the

- Creative activities allowing children to respond imaginatively to accompaniment, expressing feeling or emotion through body movement.
  - 1. Creative movement:
    - a. Select an instrumental musical piece (does not have to be Hawaiian) that musically suggests the volcanic eruption and flow.
    - b. Motivate the children for this activity by showing them a film on volcanic eruptions as listed in <a href="Early Hawaiian">Early Hawaiian</a> Life, p. 29. Show the film using no sound.
    - c. Having shown the film, play the musical selection for the children. Have them listen for volcanic activity and dramatize their feelings with their bodies without using any speech.
    - d. If floor space allows, have the children close their eyes so that they will feel free to be creative.

Suggested musical selections:

- "Storm on Lake" in the William Tell Overture "Storm" from The Grand Canyon Suits
- e. After the students have had some time to move creatively, have them imagine the activities of Pele, the volcano goddess, as she causes the volcano to erupt. Share with them the chant, "E Pele, E Pele," on page 46 (Appendix Unit I-O). For a tape of the chant, inquire of the Hawaiian Studies Resource Teacher in your district. Also, see page 17.
- 2. Using pohaku in games and sports of old Hawai'i
  - a. See: Mitchell. <u>Hawaiian Games for Today</u>. This is an excellent book of early Hawaiian games. The directions are simple and easy to follow.

#### SCIENCE

- the effect of running water, wind, and ice on earth and rock
- weathering chemical and physical action
- b. Experiment with these causes of erosion in or out of the classroom. Have the children conduct experiments to show the effects of the physical forces on soil and rocks.
- c. Go on a walking trip in the community to observe erosion. Take pictures.
- d. Encourage the children to look for locations of erosion as they go on car or bus rides and to note the location on a map of the community.

See Appendix Unit I-B, p. 27.

#### e. Retrieval

- 1) Discuss the kinds of things observed.
- 2) Chart these observations and discuss them. Answer the question of why these things occur.
- 3) Have the children plan preventative measures.
- 4. Discuss the difference between weather and climate.

#### LANGUAGE ARTS =

- d. Play some music to set the right mood. A selection from Jack de Mello (without words) would be ideal.
- e. Have the children write their legends. Illustrate the legends in art.
- f. Encourage each child to share his/ her legend with the class using his/ her diorama: (See art lesson #1.)
- 2. Read the following legend to the children: Buffet, Guy. Adventures of Kamapua'a.
  - a. Discuss the location of the legend and the geographical features described.
  - b. Talk about the power of Kamapua'a and his ability to change into different forms.
    - 1) Plant forms: olomea, kukui, hala, kūkaepua'a, 'ama'u, 'uhaloa
    - Clouds
      - 3) Man
    - · 4) Fish: humuhumunukunukuapua'a

#### HEALTH/FOOD AND NUTRITION

#### Husic

'ili'ili. "Ke Ānuenue"
Source: Māhoe. <u>E Himeni</u>
Hawai'i Kakou, p. 81.
LP Mele Hula, Noelani
Records.

- a. Every child should have two pairs of 'ili'ili.
- b. Teach the children to hold the <u>'ili'ili</u> by placing one between the thumb and index finger and the other on the fatty part of the other three fingers.
- c. Have the children ho'oma'ama'a (practice) with one pair ip the right hand first, then repeat the same procedure using only the left hand.
- d. After the children can use the 'ili'ili comfortably with each hand, have them practice using both hands. Children will drop the 'ili'ili, but encourage them to practice.
- e. Use the <u>ipu</u> or an <u>'ukulele</u>.

  Have the children

  ho'oma'ama'a (practice)

  doing a <u>kāholo</u> (vamp) with

  the <u>'ili'ili</u>. There are

  several ways of doing a

  kāholo with the 'ili'ili.

#### ART "

legends.

- Petroglyphs (cf. Filmstrip Ki'i Pöhaku). See: Appendix Unit I-I/J pp. 37-39.
  - a. Run off copies of the narration and the illustrations. Have the children share their experiences with petroglyphs.
  - b. Talk about
    - 1) The location of petroglyphs
    - . 2) Why people carved these pictures into rocks
    - 3) The kinds of rocks on which petroglyphs are found
    - 4) The culture that can be learned from the petroglyphs
    - 5) The tools they used
  - c. Spend some time having the children give their interpretations of some petroglyph forms.

#### GAMES AND RECREATION

- b. The following games are simple and use '11i'ili (pebbles) found in the environment. Have the children collect some 'ili'ili a few days early and start a class collection. For simple indoor games:
  - 1) Kimo (jackstones), p. 60
  - No'a (finding a peoble under a kapa), p. 56
  - 3) Puhenehene (finding a pebble on a person), p. 58
  - 4) Konane (checkers), pp. 62-63
- 3. Outdoor sports using pohaku called 'ulumaika See: Mitchell. Hawaiian Games for Today, pp. 28-30.
  - a. Talk about the variety of uses of stones and rocks found in the environment.
  - b. Encourage the children to create a game for a child living in early Hawai'i using only the rocks in the environment.
  - c. Show the children the rock ('ulu) used in the game. Have them hypothesize what kind of game this is judging by the shape of the rock. Write their hypotheses on a chart.

#### Ask:

- 1) What is this 'ulu used for? Have them hypothesize and perhaps create a new game in the process.
- 2) Who played this game?
- 3) Why did they play this game?
- 4. Have the children correct the hypotheses based on their reading of the Mitchell reference cited above.
- 5. Teach them the game.



#### SCIENCE

- Have the children predict what they feel are the differences. Write their predictions on a chart.
- b. Incourage them to ask questions about the climatic factors of wind, temperature, rainfall, and location.
- c. Conduct research on these factors.

#### Sources:

Hawai'i's Cultural Heritage - "Natural Environment" plates 14, 18. Available in 7th grade social studies departments.

Dunford: The Hawaiians of Old, pp. 15, 58, 85, 131.

Call a guest speaker from the National Oceanic and Atmospheric Administration (NOAA) to discuss concerns dealing with the effects of the tradewinds and the ocean surrounding the islands. Call 546-8620 (O'ahu) for information.

#### Culmination

Set up a large bulletin board display consisting of pictures, photographs, and research narration on climate, weather and the effects of erosion. Invite other classes to the presentation

#### LANGUAGE ARTS

c. Talk about how he became the Hawaiians' explanation for geographical features on the wind, rd side.

#### 3. Letter writing

- a. Have the children write a letter to their representative or to the mayor or to the community leaders. Inform them about the erosion problems in the community.
- b. Invite them to come to the class to discuss the problem.
- 4. Have students write to schools along the windward and/or leeward areas of their island or to schools of another island to exchange data on rainfall, wind and other weather conditions. Compare the information with the data gathered about their own area.
- 5. After Activity 4, p. 27 of Early
  Hawaiian Life, encourage the children to
  learn the place names in Hawaiian and
  their meanings:
  - a. Islands
  - b. Home town or district
  - c. Street you live on
  - d. Mountain ranges
  - e. Rivers or streams or harbors

See: Pūku'i and Elbert. Place Names of Hawai'i. Nā Ki'i Ho'ona'auao for 17" x 22" illustrations of each island, main cities, main mountains, official color and lei.

#### HEALTH/FOOD AND NUTRITION

Discuss how Hawai'i's location was a major factor in keeping the people healthy in early Hawai'i.

- 1. Have the children formulate predictions. Sample answers:
  - Isolated from other people so they remained free of diseases
  - Ate nutritious food
  - Lived a healthful, vigorous, outdoors lifestyle
  - Practiced cleanliness
- 2. Compare the kinds of foods the children of early Hawai'i ate with those eaten today. Compare cleanliness today with that of early Hawai'i. Set up a comparative chart.
- 3. Discuss why Hawai'i is becoming popular as an ideal place for persons to spend their retirement years.
  - a. Mild, pleasant climate free from smog and extremes of heat and cold
  - b. Relaxed, informal way of life
  - c. Absence of heating fuel costs and seasonal clothing requirements
- 4. Explain how the open-air living in Hawai'i contributed to the health and well being of its people.
- 5. Compare this kind of open-air living with the air-conditioned type living we have in Hawai'i today.



		Music
	f.	See: Appendix Unit I-N, pp. 44-45. Teach the song using the translation in E Himeni Hawai'i Kakou and have the children create the motions using the 'ili'ili.
	g.	Explain the importance of chants.
		<ol> <li>Have them listen to a variety of chants that describe the natural environment.</li> </ol>
	•	2) Encourage them to describe their feelings about the chants.
		3) Ask them to predict what roles chants played in early Hawai'i.
	h.	Have the children listen to instrumental Hawaiian music and identify the instruments. Discuss the introduction of foreign instruments and how they influenced the music of early Hawai'i.
•		

#### ART

- d. Allow them to select one that they would like to reproduce.
- e. Make rubbings of petroglyphs. The rubbings can be framed and hung or can be used on skirts or other articles of clothing. You will need a piece of unbleached muslin or other soft cloth and crayons. Place the cloth over the petroglyph and color within the figure, or to get another effect. you can color the area outside of the figure with your crayon.

If you are not able to visit an area which has petroglyphs, you can create the same effect by doing the following:

- 1) Draw a petroglyph design on your cloth lightly with the crayon
- 2) Lay the cloth on a rough concrete walkway

#### ART

- 3) Firmly color inside or outside of the figure
- f. Sand petroglyphs

Materials needed:

Pieces of wood about 6"x8", 1 per child; Elmer's glue; Green, black, or white sand; Liquid plastic spray.

#### Procedures:

- Have the children draw their petroglyph on the block of wood.
- 2) Outline the petroglyph figure with Elmer's glue.
- 3) Sprinkle black sand on the figure. Let dry for two days.
- 4) Spread glue on the rest of the board and sprinkle the entire area with white sand. Shake the excess off.
- 5) Green sand may be used in place of black sand.

#### ART

#### Resources:

Aloha Council, Boy Scouts of America. <u>Hawaiiana, a</u> Handbook for Scouts.

Cox, J. Halley and Stasack, Edward. <u>Hawaiian Petro-glyphs</u>.

Hazama, D. (Ed.). <u>Culture</u> <u>Studies: Hawaiian Studies</u> <u>Project.</u> pp. 70-73.

McBride, L.R. <u>Petroglyphs</u> of <u>Hawai'i</u>.

#### SCIENCE

 Science activities to study the basic geologic formation of high volcanic islands such as the Hawaiian Islands and other Polynesian islands.

Materials needed: Appendices Unit I - A and B, pp. 26-27. Make transparencies to be used in the instruction. Table display: Arrange on a table a variety of lava rocks (e.g., 'a'ā, pāhoehoe), olivine rocks and Pele's tears (whatever by-products you have available from volcanic eruptions).

- Sharing a film: "The Hawaiian Islands: Their Origin and Nature", #1170, 10 minutes.
  - a. Introduce film using inquiry:
    - 1) Pass the rocks around and have the children examine them.
    - 2) Ask: Where do you suppose these objects came from? How does a volcano erupt? What causes an eruption?
    - 3) Write their predictions on a chart.
  - b. Show the film.
  - c. Discussion following the film:
    - Have the children recall the stages involved in the formation of an island.
    - 2) Have them go to the blackboard

#### LANGUAGE ARTS

- The following activities in language arts can be used with the science lessons on geologic formation.
  - 1. Word association: Write the word "volcano" on the board. Have the children give as many word associations as they can. Write these words down on a chart as shown below. Ask your kupuna to conduct a lesson on the Hawaiian word for each of the important terms or use Appendix Unit I-C, p. 28.

#### Vol cano

10100110				
English	Hawaiian			
erupts ash explosion volcanic ejecta	lua'i pele lehu halulu pohaha			

Have them pretend they are living on an island with an active volcano. Using some of the words listed on the chart, have them write an account of what happened on "The Day the Volcano Erupted in My Backyard."

- 2. Sharing: Share the stories written. Have each child illustrate one important incident in the story to go along with his/her story. (Illustration can be done in art. See Art lesson #2 on p. 15.)
- 3. Sharing legends: Read a few excerpts from the Pele epic, Pele and Hi'iaka,

#### HEALTH/FOOD AND NUTRITION

6. Discuss the way the new buildings are built today with no open-type windows, just glass. With the energy crisis we have today, what should the architects have done to improve the situation?

#### ART

## GAMES AND RECREATION

- Songs and chants about the islands and their formation.
  - 1. Singing the songs of the islands. Sources:
    Kamehameha Schools. Explorations/Ho'omāka'ika'i.
    Māhoe. E Hīmeni Hawai'i Kākou.
    - a. Procedure
      - Talk about each island's lei or flower and color.
      - 2) Encourage the children to bring the island flowers to school.
      - Learn the Hawaiian words for the island colors.
    - b. See Na Ki'i Ho'ona'auao for poster maps of each island containing all the information for this lesson.
    - c. 'Ukulele instruction Teach the children the 'ukulele and autoharp accompaniment to the island songs.

- Creative activities to enrich the study of the geologic formation of the islands
  - 1. Creative sculpturing Divide the class into four
    groups. Each group will
    sculpture one of the
    following out of papier
    mache:

Group 1 - Volcano
Group 2 - An island
Group 3 - Pele
Group 4 - Will provide the
houses, trees and other
scenario. Prepare the
ahupua'a for a volcanic
eruption. See: Early
Hawaiian Life, p. 30
for science demonstration.)

- Collage (illustration for "The Day the Volcano Erupted in My Backyard") See: language arts plans, p. 14.
  - a. Materials needed:

Oaktag 12" x 18"
Collection of materials to use: black sand, pumice, soil, scrap material, paints, brushes, glue, yarn, etc.

b. Encourage the children

- Creative dance (<u>hula</u>) movements can be used to interpret the songs and chants learned in music. See: Appendix Unit I-E, pp. 31-33.
  - 1. Talk about dancing in early Hawai'i.
    - a. Who did the dancing? (men? women?)
    - b. What was it called? (hula)
    - c. Why did they dance? (creative expression accept all appropriate contributions)
    - d. Have you seen so-called ancient Hawaiian dancing (hula kahiko)?
    - e. What did they wear?
    - f. What instruments did they use?
  - 2. Compare the early Hawaiian <u>hula</u> with the dances of ancestors of children of various ethnic backgrounds represented in your classroom such as:
    - a. Japanese
- . Korean

q. African

- b. Filipino
- e. European

h. Vietnamese

- c. Chinese
- f. Early American
- i. Samoan
- 3. Have the children create motions for the island songs learned in activity #1 in music class. Community resource persons may be used to demonstrate standard hula motions. Encourage them to use their hands, arms, facial expressions and even foot movements to express themselves. See: Appendix Unit I-K, pp. 40-41.
- 4. Have children in the classroom share some of the dances from their own cultural backgrounds.
  - a. They may respond to records from their own cultural backgrounds.

ERIC Full Text Provided by ERIC

Ω

Grade	4, Unit I		
	SCIENCE	LANGUAGE ARTS	HEALTH/FOOD AND NUTRITION
2.	to diagram these stages.  Display transparency made from Appendix Unit I-A, p. 26 on the overhead projector.  a. Discuss the stages as shown and introduce the new vocabulary to them.	by Emerson and the section on Rev. William Ellis' 1823 trip to Kilauea volcano, chapter X, Polynesian Researches: Hawai'i See: Appendix Unit I-D, pp. 29-30 for a Pele legend rewritten with Hawaiian words inserted to build up vocabulary. (Perhaps a kupuna could be used in this activity.) Encourage the children to read Pele legends on their own.	
1	<ul> <li>b. Have the children compare the diagrams they sketched on the board with the transparency.</li> <li>c. Encourage the children to ask questions about the transparency. Record the questions on a chart as a record of what they need to research.</li> <li>1) What causes a volcano to erupt?</li> </ul>	<ol> <li>Compare the Pele legends with the scientific explanation of secondary volcanism.</li> <li>Share Maui legends. Read the Maui legend about how the Hawaiian Islands came to be. Encourage the children to think about their own legends of origin.</li> <li>Creative writing - Have the children imagine their own legends of origin of natural phenomena.</li> <li>a. Have them think about some natural</li> </ol>	
	<ul> <li>2) How long did it take for an island to finally appear above the surface of the ocean?</li> <li>3) What is magma?</li> <li>4) How do scientists predict when a volcano is going to erupt?</li> <li>5) What is a fringing reef?</li> </ul>	phenomena in Hawai'i today, e.g., rain, thunder, mountains, fire, lightning, winds, waterfalls, ocean currents, volcanic eruption.  b. Discuss how these phenomena occur and predict how the children of early Hawai'i might have interpreted these happenings.  c. Motivate them to include many of these phenomena in their writing.	
•	6) How does coral grow?		

·	·	_	•
		· · · ·	Husic
2.		nt: e: A	"E Pelo ppendix
	a.		k about early Ha
_		1)	Who is
•	-	2)	Where d
		3)	Why is to the people:
, ,		4)	What ki does sh erupts,
	b.	a c See	roduce thart. : Apper
		1)	Go over Have th pick ou that ar
	,	2)	Talk ab
		3)	Chant t

#### ART

#### GAMES AND RECREATION

- E Pele. E Pele" ndix Unit I-D p. 46.
  - about Pele's role rlv Hawai'i:
    - ho is she?
    - here does she live?
    - hy is she important o the Hawaiian . eople?
    - hat kinds of things oes she do? E.g., rupts. flows.
  - duce the chant usind Appendix Unit D. 43.
    - over the words: ive the children ck out those words nat are familiar to em.
    - 1k about the meanig of the verse.
    - 3) Chant the first verse for them.
    - 4) Teach the chant, one line at a time. Pro-

- to pick one event from their stories written in language arts to illustrate.
- Discuss the following points they should consider as part of their illustration:
  - Location of the volcano in relation to the kauhale.
  - Number of people in the story.
  - Plants and animals in the kauhale.
  - Location of the kauhale in the ahupua'a.
- Have them do a rough sketch on manila or drawing paper.
- Encourage the use of at least five things in their collages.
- Encourage the children to practice

laulima (cooperation)

kokua (help) and other 'ohana values

- b. Have them bring their grandparents or parents who know the dances. Use them as resource persons to instruct the children on the ethnic dances. (The state libraries have cultural kits that can be borrowed. These kits consist of artifacts and clothing of a variety of ethnic groups.)
- c. Compare the dance movements of these various ethnic groups with those of the early Hawaiians.
- 5. Hula kahiko "E Pele, E Pele"
  - a. Have the children think about the chant as they learned it in music, activity #2 on this page. Encourage them. to react to the chant using their feet.
  - Teach the children the hela step. See: Appendix Unit I-K, p. 40. Have them practice this step with the record or tape.
  - c. Have them think about the meaning of the words. Starting with verse #1, have them create hand motions for this chant.
  - d. . Combine the hand motions with the foot work (hela).
- 6. "Aia La 'O Pele"
  - a. Use the same procedure as above to create motions for this chant.
  - b. Teach the children the kawelu step for this dance. See: Appendix Unit I-K, p. 41.

	Grade 4,	, Unit I	
		SCIENCE	LANGUAGE ARTS
		7) What causes the submergence of the volcanic island?	d. Have them write their stories in the first person.
	C	8) What is an atoll?  1. Have the children plan with you the best way to do research in order to answer their questions.	See: Appendix Unit I-II, p. 36 for Hawaiian vocabulary that can be used in their stories.
	•	References:	
•		Dunford. The Hawaiians of Old, pp. 1-6.	
		Potter and Kasdon. Hawai'i our Island State, pp. 17-22.	
		McBride. About Hawai'i's Volcanoes. Excellent resource to use for total class research on volcanism.	
· .		OIS. Coral: A Hawaiian Resource	
		the children present their search reports using illustrations, pictures from magazines or pamphlets or books.	
		Involve the children in a further study of the Hawaiian archipelago and its location in the Pacific.	
	<u>.</u>	Use the science program guide, Science In Hawai'i: A Fourth Grade ETV Guide to conduct a unit using the video program, "Hawai'i and Planet Earth: The Hawaiian Geo- graphy." This program is available	

HEALTH/FOOD AND NUTRITION

#### Music

#### ART

#### GAMES AND RECREATION

- nounce the words for them and have them, follow you.
- 5) After they have learned all the verses, have them create dance motions for it. (See: games and recreation activity #5, p. 17.)
- c. Have the children think of other things Pele does and compose new verses for the chant. (Use the kupuna in your class to help translate these new verses into Hawaiian.)
- 3. Chant: "Aia La 'O Pele"

See: Appendix Unit I-L, p. 42. Other sources:

Mele Hula, LP, Noelani
Records, NRS102
Mele Inoa, LP, Poki Records
(Use the same procedure as mentioned above to teach this chant.)

4. Music appreciation

Source: Ha'aku'i Pele i Hawai'i, LP, Hula Records, Edith Kanaka'ole. Read the translation of "Kua Loloa Kea'au" one of the chants for Pele.

- 3. Papier maché or other sculpturing media
  - Construct a model of the Hawaiian archipelago showing topographical features.
  - b. A good dough can be made with:
    - 1 cup flour 2 cups salt 1 cup water.
- 4. Filmstrip (See science lesson closure, p. 20)
  - a. Have the children work in groups. After planning steps to include in the filmstrip, have them sketch their pictures on paper cut in long pictures,
  - b. Each picture should be about 4" x 6". If they are doing 15 strips, they should have a strip 60" long. Use crayons or felt pens for this activity.
  - c. Encourage the children to fill up the entire space, leaving no blank white spaces.

#### SCIENCE

SCIENCE

from Multimedia Services, Educational Television Section (988-2117). Requests should be made on the Videotape Program Request form to be found in any year's edition of the ETV programming schedule, <u>Television for Learning</u>.

Check the ETV schedule for broadcast dates for this program in case they are convenient for your planned lesson timeframe.

Complete pre- and post-televiewing activities are available in the Science In Hawai'i guide. After the students have viewed the film, ask the school kupuna to kokua with the proper pronunciation of the Hawaiian terms, especially of such words as 'a'ā and pāhoehoe which have been taken into English scientific vocabulary with incorrect Hawaiian stress and pronunciation elements.

#### Closure

Plan production of a movieroll art project with drawings showing the formation of the Hawaiian archipelago over the passing of centuries. Some groups can work on the volcanic phase when the islands were built up, others on the stage of maximum buildup, others on erosion and subsidence and still others on the present aspect of the islands, atolls, fringing reefs and other physical features in the entire archipelago, including the vast northwestern area of the chain. Conduct the actual art activity in art class.



GAMES AND RECREATION

	Music	ART
	Explain that this is a hula 'ala'apapa, ancient dramatic hula. Play "Noho Ana i Hilo" to set the mood for the children.	d. Look for opportunities to encourage <u>laulima</u> (cooperation), <u>kokua</u> (help), <u>alu like</u> (working together), and other 'ohana concepts.
<b>a.</b>	Have the chidren imagine being in Puna on the island of Hawai'i as Pele vents her wrath by ravaging Puna with fire and lava.	outer consupers
 b.	Discuss:	
	1) How you felt as you listened to the chant	
,	2) What instruments were being used	
	3) What you could hear in the background	
	4) How Pele must have felt as the lava flowed towards Puna	
	5) How Hi'iaka must have felt when Pele des- troyed her <u>lehua</u> grove	
c.	Activity: encourage children to create <u>hula</u> rhythms using other Hawaiian instruments as an accompaniment as they listen to the record again.	

#### SCIENCE

- Activities to study the coral reefs of Hawai'i.
  - 1. Plan a trip to see a coral reef.
    Walk on the reef and study the plant
    and animal life there. Encourage the
    children to investigate and inquire
    about the life on the reef. Have them
    make inferences. Record their questions
    on a chart and plan research activities.
  - 2. See Science in Hawai'i (RS080-9290) for a study lesson on "Life on the Sandy Shore and the Rocky Shore." This video lesson takes the children to a sandy and to a rocky area to study the plant and animal life there. It contains preand post- activities for the viewing.
    - a. Discuss the ecology of a Hawaiian reef.
    - b. Identify the shore creatures and find more information about their habits and habitats.
    - c. Experiment to see what kinds of environmental changes destroy them.
    - d. Have the children select one animal or plant to study in detail, especially the coral, eel, crab, shrimp or any of the fish that live in and on a coral reef.
    - e. Have them write a brief report to share with the class.

## LANGUAGE ARTS

- Creative writing using the study of the coral reefs of Hawai'i.
  - 1. Have the chidren write about an imaginary trip aboard a glass bottom boat as it glides over a reef and lingers there. Have them describe as many animals and plants as they can see.
  - 2. Encourage the children to discuss the changes that are taking place on Hawai'i, the Big Island, due to volcanic eruptions.
    - a. Have them think about what might happen along the Hawaiian chain 500,000-1,000,000 years from now.
    - b. Encourage them to jot down their ideas.
    - c. Have them pretend they are taking a trip into the future in a floating balloom.
    - d. Have them write a description of the archipelago and all the changes that have taken place.
  - 3. Reference skills
    - a. Plan with the school librarian simple lessons on doing research. Lessons are available in the Library Skills Guide for teachers and librarians. Teach the children necessary skills in doing research. E.g.,

#### HEALTH/FOOD AND NUTRITION

- Nutritional value of foods from the coral reefs of Hawai'i.
  - 1. Develop a chart to show which food products harvested from the reefs provide the nutrients (the necessary vitamins, minerals, etc.) that are needed to develop strong, healthy people.

PROTEIN	VITAMIN	MINERAL
Fish Shellfish	Fish	Fish
Silerrisii	<u>Limu</u>	<u>Limu</u>

- 2. Discuss the risks involved in diving for coral or in collecting rocks and minerals.
- 3. Learn rule, on Water Safety. Students can make posters for each rule on water safety to display in the class-room or in other parts of the school.
- 4. Participate in the 4th grade drownproofing state program wherein each child is taught survival in the water.

#### Music

#### ART

#### GAMES AND RECREATION

- Songs about the coral reefs of Hawai'i.
  - l. "Ku'u Pūpū Kau Põhaku" Source: Māhoe, E Himeni Hawai'i Kākou, pp. 86-87.
    - a. Write the words on a song chart, in English as well as Hawaiian.
    - Have the children look at the Hawaiian words as you read the English translation.
    - c. Ask:
      - 1) What shell do you suppose the composer is thinking about?
      - 2) What is the Hawaiian word for shell? (pupu)
      - 3) Do you see any words on the chart that are familiar to you? E.g.,

pohaku (rock)
ha'ina mai ka puana
(tell the refrain)
nani (pretty)
'oe (you), etc.

- A creative three dimensional art activity for the coral reef unit.
  - 1. After a trip to see a coral reef and to see the animals that live there, have the children choose one favorite reef animal.
  - 2. Plan a mural of a coral reef. Plan the scene so that the animals and plants are drawn to scale.
  - 3. Have the children stuff their animals by drawing the animal, cutting two of the same animal, stapling the edges and stuffing them.
  - 4. Use paint for the background scene and
    encourage imaginative
    use of other materials
    from the ocean to set
    up the ocean scene.
    E.q., use sand, <u>limu</u>,
    dried shells, and other
    materials found on a
    reef.

Science		LANGUAGE ARTS	- (		HEALTH/FOOD AND	UTRITION
 Closure - see art lesson "3 Dimensional Art", p. 23.	a.	Locating reference books and other materials			7	À
DOE Films:  "Coral Jungle" 5681  "Coral Reefs" 4148  "Great Barrier Reef" 5728	<b>b.</b>	Using the reference books properly by locating the index and finding the proper pages.		. <b>.</b>		î .
Other Resources:  OIS: Coral: A Hawaiian Resource Science in Hawai'i "War and Peace on the Coral Reef"					••	•
•					• • • • • • • • • • • • • • • • • • •	
						n



i di	· · · · · · · · · · · · · · · · · · ·		<del>,</del>				,		· .		Gra	ide 4, Un	it I
	Mu	SIC		Music				GAMES AN	D RECR	EATION	,		
•		ach new, key waiian words, e.g.,		have been studying in science.					<del> </del>			·	7
y' .: .:	ma	'ohihi (admire) i (come) nuhinu (shiny)	5 b.	Name the particular animals in the song		÷ .	· :		•				
	5) Profession	onounce the words r the children d have them repeat em.		1) Shrimp 2) Mollusks 3) Snail 4) Shillfish 5) 'pet		,					: :		¢
		ng the first verse r them.	/ c.	Have available pictures of these animals or of their shells.						. /			•
	as	ach as many verses they are able to arn.	d.	Share the legend with the chidren.			,	<u>:</u>					
	Using : earlie childr	ve interpretation the song mentioned r, encourage the en to choreograph s for each verse.	e.	Go over the words in the first verse and see how many Hawaiian words are already in the children's vocabulary.				,				<b>*</b>	٠
5.	Teach	nentation the children the animent on the	f.	Due to the repetition of words in the song, the children will be able to learn the verses readily.					. •	,	<i></i>		
2.	'ukule Song: "'Ōpa See: Append			Create motions for this song in Games and Recreation. Use the 'ukulele as an accompaniment.	7.	music tizir	c, activ ng the s	a - "'Öpae ity #2, ta ong. Have	lk about the chi	the pos Idren ci	ssibili reate a	ty of dra pantomia	ama- me
**************************************		bout some of the nimals the children						. A combine possible		r singii	ng, aan	cing, and	a

A GEOLOGIC HISTORY OF A VOLCANIC ISLAND IN THE PACIFIC

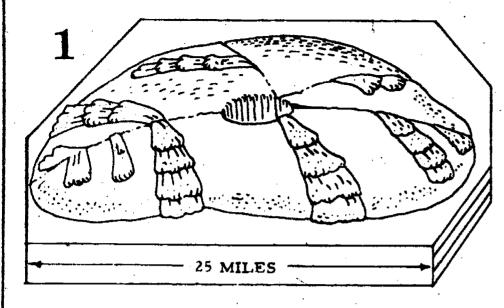
26

AFTER

KK

ano: PA

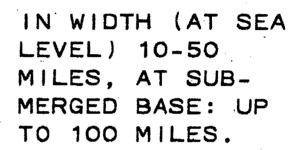
## Effects of EROSION



THE HAWAIIAN LAVA
OR SHIELD VOLCANO

STAGE 1 SHOWS 4° OR 5° GENTLE SLOPE, OFTEN FLAT NEAR TOP.

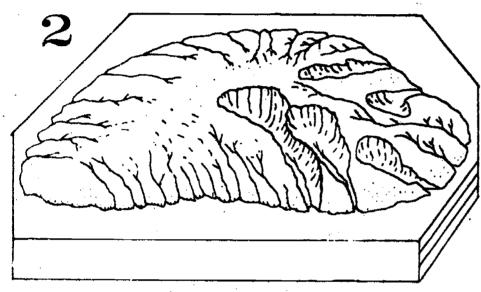
RANGE UP TO OVER 13,000 FEET ABOVE SEA\_LEVEL.

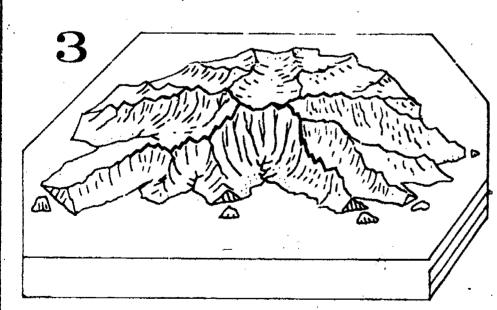


CENTRAL DEPRES-SION AND LAVA FLOWING FROM RADIAL FISSURE LINES.

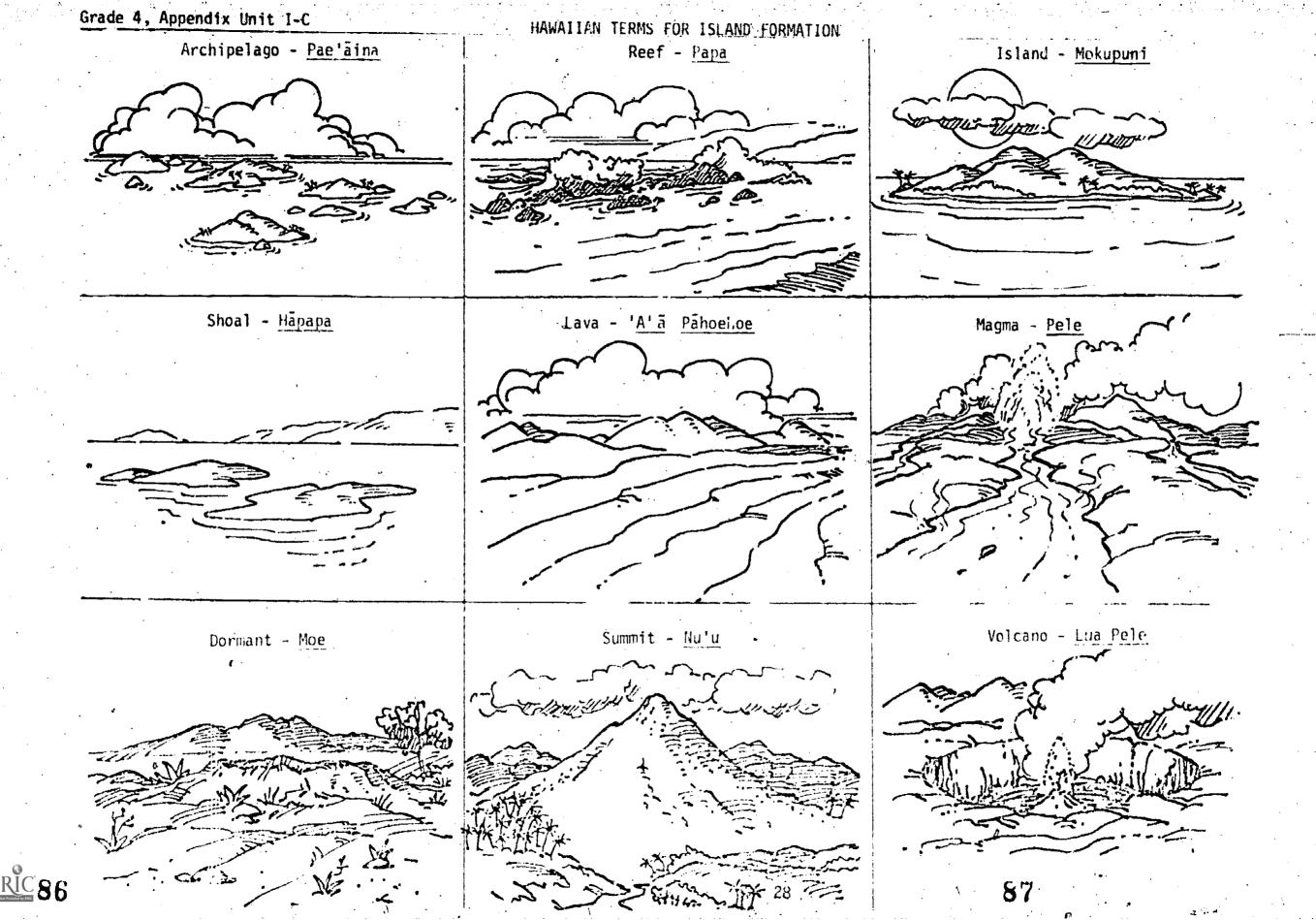
2. YOUNG STAGE - DEVELOPMENT OF AMPHITHEATRE- HEADED VALLEYS.

3. MATURE STAGE - RESULTS OF GREAT STREAM EROSION.





ERIC



#### "HOW HAWAI'I WAS DIVIDED"

Sample of Re-telling Story by Noelani Māhoe

Pele watched her fires while seated about her, her <u>kaikaina</u> (younger sisters) made <u>lei</u> of <u>lehua</u>. "Look," one whispered. "<u>He kanaka u'i</u>." (A handsome man.)

He kanaka u'i (a handsome man), indeed, stood on the point of rock above the edge of the pit. He smiled down at the wihine (women). The kaikaina (sisters) were delighted. "Look Pele," they whispered again. "See that kanaka u'i. Let us invite him to come down. Let us put our lei around his neck."

"Kanaka u'i," said Pele scornfully. "He pua'a kēlā." (That is a pig.) It is Kamapua'a the pua'a.

"Oh no, you are mistaken," the <u>kaikaina</u> told her. "You have not looked at him. We know <u>pua'a</u>. We have seen them often in the lowland. We know the shape of a pua'a, the <u>po'o</u> (head) of a <u>pua'a</u>, the <u>nuku</u> (snout) of a <u>pua'a</u>. This is no <u>pua'a</u>, we tell you. Look, Pele, look! He kanaka u'i."

"Oh, I know you!" Pele answered. "Pua'a with a long snout! Pua'a with a wagging tail. I recognize you."

The kanaka u'i was indeed Kamapua'a, the pig god. Pele's true words angered him and he began to taunt her.

As he taunted her, Pele, too, was angered. "Stir up my fires!" she commanded her <u>kaikunāne</u> (brothers). "Let this <u>pua'a</u> feel the <u>ua 'ele'ele</u> (black rain) and hot lava. We shall drive him from this island. Havai'i is ours. Let the <u>pua'a</u> return to O'ahu."

The fires blazed in the pit and hot lava overflowed. Dark clouds gathered, lightning shot from cloud to cloud and thunder roared. The earth shook. Pele could no longer see Kamapua'a, but she heard his scornful voice taunting her.

Her eyes blazed with anger. She stamped her foot on the floor of the lava pit and lava burst forth filling the pit. Hot rocks shot up steam and smoke rose filling the air. Kamapua'a must be burned she thought to herself. "Let the fires die down!" she commanded her kaikunane. When the smoke had disappeared and the sky became clear, there stood Kamapua'a on the same point of rock. When he saw her looking up at him, he began to taunt her again.

#### Grade 4, Appendix Unit I-D

Pele was furious. She stamped her foot again and ordered her <u>kaikunāne</u> to rekindle her fires. The lava burst forth overflowing the pit. Kamapua'a, seeing that the lava was overflowing the pit, changed himself into his <u>pua'a</u> form. As he ran down the mountain side, the hair on his back was singed by sparks of the fire and to this day, pua'a have bristles.

Pele seeing Kamapua'a in his pig form got angrier. She stamped her foot again, and the lava flowed down faster. In Kamapua'a's excitement, droppings fell, and a weedy shrub called kūkaepua'a sprang up.

When Kamapua'a reached the ocean, he jumped in the sea and changed himself into his fish form, humuhumunukunukuapua'a. Pele seeing all of this realized that neither of them could destroy the other. Her kaikunane and kaikaina urged her to make peace with Kamapua'a or the island would be laid to waste. Pele did this declaring that the windward side would belong to Kamapua'a and the other side to her.

#### **VOCABULARY**

kaikaina - younger sister(s) of female; younger brother(s) of male

<u>he kanaka u'i</u> – a handsome man

<u>wāhine</u> - women

90

<u>he pua'a këlä</u> - that is a pig

<u>pua'a</u> - pig

Kamapua'a - pig god

kaikunane - brother of female

ua 'ele'ele - black rain

kūkaepua'a - small weedy, creeping grass (Digitaria pruriens) native to Hawai'i.

humuhumunukunukuapua'a - fish varieties of humuhumu (Rhinecanthus aculeatus, R rectangulus) Lit. humuhumu with a snout like a pig.

Source: Pūku'i, Mary and Curtis, Caroline. Pikoi.



**\** 

#### HULA

Hula is the Hawaiian dance that tells a story through a mele (chant or song) and appropriate gestures. The story may be one that honors a god, goddess, or an ali'i, a royal person. It may be a story about a place or a thing.

According to the oldest mele, the goddess Hopoe was the first kumu hula or teacher of the hula. Hopoe's first student was Hi'iaka-i-ka-poli-o-Pele. This was Pele's youngest and favorite sister, Hi'iaka. Today, the chants for Pele are commemorated in the name of Hi'iaka.

In old Hawai'i, to become a dancer meant a long and strict course of training under a <u>kumu hula</u> (dance <u>teacher</u>). The <u>haumāna</u> were taught in the <u>hālau hula</u> or dance school. A <u>kuahu</u> (altar) was built inside the <u>hālau</u>. The <u>haumāna</u> placed gifts of <u>lei</u> on the altar. They chanted greetings and praises to Laka, goddess of the <u>hula</u>.

At the end of the training period, a graduation or 'uniki was held. After the cere ony, the dancers were ready to perform before the <u>ali'i</u> and the people.

Today, the altar is no longer built inside the <u>hālau</u>. However, the <u>haumāna hula</u> are taught to make and bring beautiful to their classes. They learn the chants of Laka to show respect for the teachings of old. Some <u>kumu hula</u> offer a long and strict course of training which ends with an 'uniki.

The vocabulary for directionals used in hula are:

hul i	-	turn	ma uka	_	toward	the	mountain
i luna	-	upward	ma kai	_	toward	the	sea
i lalo	-	downward	'ākau	-	right		
i mua	_	forward	hema	-	left		
i hope	-	backward	<u>'ami</u>	~	round t	nip n	novement

Ho'omāka'ika'i/Explorations 1981. Reprinted with the permission of The Kamehameha Schools/Bernice P. Bishop Estate.



The words in the verses below can be expressed by the use of basic hula motions.

Here I am A child of this land called Hawai'i There is beauty everywhere.

Mountains stand tall and majestic
Almost reaching the heavens above
Waterfalls run gently down the slopes
Falling into cool ponds below:

It is here that I spend time swimming and thinking
And day dreaming about what it must have been like
a long, long time ago.

I see beautiful trees
So tall and strong like soldiers ready for pattle
There's a softness in the swaying of the leaves
As the wind blows gently through the branches.

see the beauty of the ocean Its waves of blues and greens Extending as far as the horizon.

In the calm seas I see canoes

Racing towards the shore

To this land so dear to my heart.

This land called Hawai'i!

(composed by Nu'ulani Atkins)

The hula has become a form of entertainment for all the people. Both men and women dance. They perform in either a sitting or a standing position.

A standing dancer or 'olapa is usually accompanied by a seated chanter-drummer or ho'opa'a. The chanter-drummer beats the ipu hula or gourd drum for some dances. For other dances the pahu or wooden skin-head drum is used.

A seated dancer usually does his/her own chanting. At the same time, the dancer accompanies himself/herself with a cert in hula instrument such as  $p\bar{u}'ili$  (split bamboo), 'ili'ili (small, water worn rocks), 'uli'uli (feathered gourd), or  $k\bar{a}l$  (rhythm sticks).

Dancers begin and end each hula with a call or kahea. The kahea at the beginning is either the title or the first line bof the chant or mele. The kahea at the end is the dedication to the place, thing, or person for whom the mele is composed.

There is a basic vocabulary of hand gestures. The dancer depicts the world around him/her as it is seen in relation to the 'olapa. For example, the motions for the things of the sea place the hands below the waist. A flower might be shown at eye level or higher, should the blossom be on a high branch of a tree. The motions for the sun, moon, stars, and clouds are placed above the head. The gesture for rain would start high and gradually be lowered in much the same way that rain really falls.



Periwinkle

Nerita shellfish

Seashell

2. Pipipi

3. Pupu

4. Kūpe'e

According to legend, a <u>puhi</u> (eel) kidnapped a maiden from the village of Kahakuloa, Maui. She was the <u>kaikuahine</u> (sister) of one of the village boys who then called on various sea creatures to help rescue her from the eel's cave. All refused, claiming that they were too small to challenge the big eel. Finally, the little <u>'opihi</u> (limpet) agreed to <u>kokua</u> (help) the boy by clamping themselves tightly over the <u>maka</u> (eyes) of the <u>puhi</u> so that he could not see as the boy went in to the cave to rescue his <u>kaikuahine</u>.

Note: Verses I through 4 are identical except that the name of each new sea creature is substituted in the proper place.

- 1. 'Opae e! ('Opae e!)

  'Opae ho'i! ('Opae ho'i!)

  Ua hele mai au, ua hele mai au

  Na Kuahine.

  A ia wai? A ia Puhi!

  Nui 'o Puhi, a li'ili'i au,

  'A'ole loa!

  Oh, Shrimp! (Oh, Shrimp!)

  Indeed, you, Shrimp! (Indeed, you, Shrimp!)

  I have come, I have come

  For Sister.

  Caught by whom? Caught by Eel!

  Eel is big and small am I,

  No indeed!
- 5. 'Opihi e! ('Opihi e!)

  'Opihi ho'i! ('Opihi ho'i!)

  Ua hele mai au, ua hele mai au

  Na Kuahine.

  Mai maka'u! Na'u e pani

  I ka maka a 'ike''ole kēlā puhi!

  Oh, Limpet! (Oh, Limpet!)

  Indeed, you, Limpet! (Indeed, you, Limpet!)

  I have come, I have come

  For Sister.

  Do not fear! I will close

  The eyes until that eel sees nothing.

#### Recordings:

Hawaiian Hula Eyes, Mountain Apple Co., Brothers Cazimero

Mokulana, Banyon Records, Leon and Malia

This Is Eddie Kamae, Hula Records, Eddie Kamae and the Sons of Hawai'i

Nu Cale on .

Lā Kau

Komohana

Ihu

WA'A

Ama

Äkea

Hope

Kona

KEALO

Ņ

Koʻolau Toʻerau

I LUNA

KE KUA

I LALO

'ANAU - shifty wind KU-strong, gusty MILI-gentle wind I LUNA - windward

I LALO-leeward

Reprinted with the permit of The Kamehameha School Bernice P. Bishop Estate

#### NATURE VOCABULARY

#### Hawaiian-English

ke	ahi -	the fire	ka lewa	the firmament
nā	'ale	the waves, ocean swells	ka lua pele	the volcano
ke	ao	the clouds, light of day	ka lua'i pele	the volcanic eruption
nā	au o ke kai	the ocean currents	ka mahina	the moon
ke	one	the sand	ka makani	the wind
ka	ua	the rain	ka manu	the bird
ka	hua	the fruit	ka mauna	the mountain
ke	kahakai	the_beach, seashore	ka nalu "	the wave, surf
ke	kahawai	the stream, river	ka 'õpua	the cloud bank or billows
ke	kai	the ocean, sea	ka pali	the cliff
ke	kuahiwi	the mountain	ka pele	the magma, lava
kė	kumulā'au	the tree	ka põ	the night
ka	1ā	the sun, day	ka põhaku	the stone, rock
ka	lā'au	the tree, plant, wood	ka pouli	the darkness, eclipse
ka	lau	the leaf	nā pua	the flowers
ka	lepo	the dirt, earth, soil	ka pūnāwai	the spring
ka	lani	the heavens, chiefs	ka wailele	the waterfall

(Note: Ka and ke are the singular, definite articles meaning "the"; nā is the plural, definite article, also meaning "the". In general, ka is used with singular nouns with the exception of words starting with K, O, A, E which take ke. Words which begin with the 'okina (glottal stop), a consonant, before O, A or E take ka. Some few words beginning with P also take ke although the majority take ka, exceptions are indicated in the Hawaiian Dictionary.)

#### Petroglyphs

#### by Manealani Pescaia

Petroglyphs are very simple and basic symbols that are a permanent record of some aspect of early Hawaiian life. They help historians to reconstruct early Hawaiian culture.

Petroglyphs in Hawai'i are found almost entirely on the dry sides of the islands near the seashore. They are found on five different kinds of surfaces: pahoehoe lava rock, water-worn boulders, cliff faces, cave walls and sandstone beach shelves.

Sites were selected for petroglyphs because of the cultural significance of the area more so than merely the availability of the rock surfaces. It is believed that the force behind the carving of petroglyphs was the human need for visual images to record trips and events, the realistic concern about living a long life and the commemoration of events. Other speculations as to why petroglyphs were carved are:

- 1. It was a ritualistic act that needed to be done in order to clear a <u>kapu</u>, or to ask permission from the gods or to insure the protection of one's '<u>aumakua</u>.
- 2. It was a result of the traveler's desire to write his/her name on a stone in picture form.
- 3. It may have been a required act of a traveler as he left one ahupua'a to go to another.
- 4. One person may have carved a figure into a pohaku and others seeing it, may have followed suit.
- 5. According to Ellis, "Self-preservation or at least personal well-being, was to be insured by the action taken."

Whatever the reason for carving petroglyphs, some idea of how Hawaiians perceived the world and their place in it can be learned from these stone carvings.

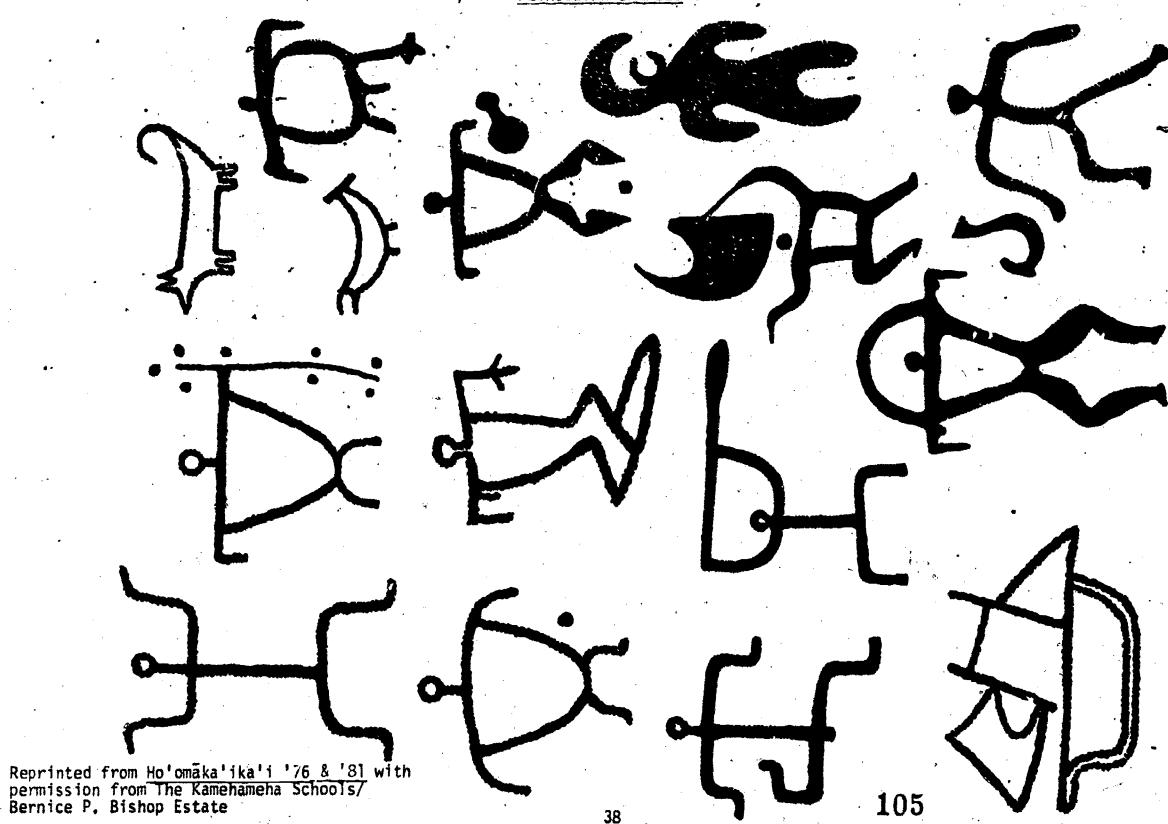
#### Sources:

Ellis, William. "Narrative of a Tour Through Hawai'i," Honolulu: Hawaiian Gazette, 1917.

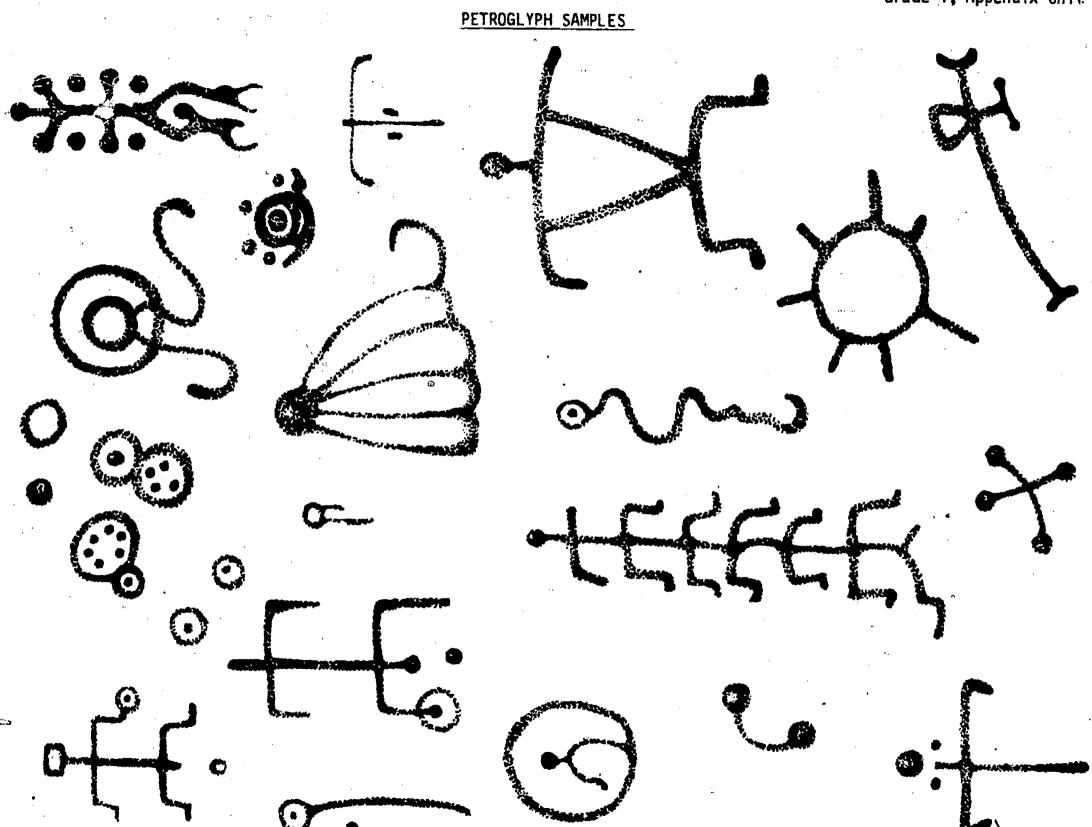
Cox, Halley. Hawaiian Petroflyphs, Honolulu: Bishop Museum Press, 1970.



PETROGLYPH SAMPLES



ERICLO4



ERIC

106

#### BASIC HULA STEPS

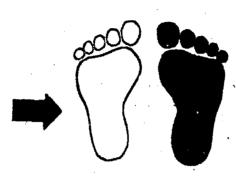
KÃHOLO: (vamp) 4 steps to the right, 4 steps to the left



Left Right



Step to the right swinging hips to the right.



Bring left foot alongside stepping on the bali, then heel of the left foot



same as 1



Bring le't foot alongside tapping on the ball of the left foot. (Repeat the four steps moving to the left.

HELA: Bend both knees, and as one foot is extended at about a 45° angle to the front towards the side, shift \* \* w ight of your your body to the opposite side; return the extended foot to the original position and repeat the proces the other foot.



Left Right



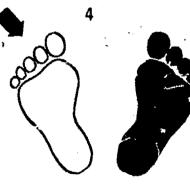
Extend and tap the ball of the right foot at about a 45° angle towards the front.



Return right foot to the original position.



Extend and tap the ball of the left foot at about a 45° angle towards the front.



Return the left foot to the original position.

#### BASIC HULA STEPS

KĀWELU: One foot taps time with the heel, the toes being stationary, while the other foot, flat, steps forward and then a little back, twice or more; the step is repeated reversing the feet. (Kāwelu is called the "Kalākaua step" by some kumu hula.)



Left Right



Right foot steps forward swaying right lifting the heel of the left foot leaving left toes stationary, swaying left putting the heel of the left foot down.





Same as 1 but stepping back.



Same as 1.

Turn to the opposite direction, swinging the left foot to the 1 position and repeating the movements.

## 'Ami hema - left ami

Bend knees. Right foot is stationary. Lift the right heel up and place it down making a circle with the hips going in a clock-wise direction.



Bend knees. Left foot is stationary. Lift the heel up and place it down making a circle with the hips going in a counter clock-wise direction.

'Ami 'ākau - right 'ami





#### Aia Lā 'O Pele

Traditional

Aia lā 'o Pele i Hawai'i, 'eā Ke ha'a maila i Maukele, 'eā

'Ūhī'ūhā mai ana, 'eā Ke nome a'ela iā Puna, 'eā

Ka mea nani ka i Paliuli, 'eã Ke pulelo a'ela i nā pali, 'eã

Aia ka palena i Maui, 'eā 'Āina o Kaululā'au, 'eā

I hea kaua e la'i ai, 'eā I ke'ale nuia'e li'a nei, 'eā

Ha'ina 'ia mai ka puana, 'eā No Hi'iaka nō he inoa, 'eā.

He inoa no Hi'iaka-i-ka-poli-o-Pele.

Pele is at Hawai'i She is dancing at Maukele

She surges and puffs this way Munching away at Puna

The beautiful one (is) at Paliuli (Pele's fires are) rising fine on the cliffs

Her (Pele's) boundary extends to Maui Land of Chief Kaululā'au

Oh where shall we find peace In the great billows are we yearning

Tell the refrain
A name song for Hi'iaka.

In honor of Hi'iaka-in-the-bosom-of-Pele.

## HOW TO TEACH CHANTS/SONGS

#### Suggested Procedures:

- 1. Write the words on a transparency, chart paper, or chalk board.
- 2. Play the Long/chant so that the children can hear what it sounds like.
- 3. If there are several verses to the song/chant, teach the first verse following the procedures under 4. When the children are able to pronounce the words correctly, sing the first verse, then teach the second verse, etc.
- .. Teach one line at a time.
  - a. Say the entire line proncuncing it the way the line will be sung while pointing to the words.

## e.g. <u>E Hawai'i, e ku'u one hānau e</u>

b. Say a shorter part of the line asking children to ho'opili.

#### E Hawai'i

c. Repeat the words listening to the children's pronounciation until they say the words correctly, then go on to the next phrase.

#### e ku'u one

d. Same as c.

#### hānau e

e. Say two of the phrases, and have the children ho'opili.

#### e.g. E Hawai'i, e ku'u one

Be sure the children pronounce these phrases correctly because there is a tendency to say "ku'u home." Note that line one has the word "one" whereas line two uses the word "home." Proper attention at this time will avoid incorrect usage of these two words.

- f. Say the entire line and have the children ho'opili.
- g. Continue the procedure of teaching a line at a time till the song is completed.
- 5. There will be songs that can't possibly be taught in one lesson. When that happens, be sure to stop where there might be a natural break.

## KAHOLO (VAMP) USING THE 'ILI'ILI

HULA 'ÌLI'ILI



Two pairs of water worn pebbles are used. Hold one 'ili'ili between the thumb and index finger placing the other 'ili'ili on the other three fingers. The 'ili'ili lying flat on the three fingers clicks the first 'ili'ili.



Arms are extended forward ard center, holding the 'ili'ili firmly in both hands above the waist, at chest level.

## TWO EXAMPLES OF VAMPS USING THE 'ILI'ILI









EXAMPLE 1. Arm is extended to the side. Hold each position for two beats.









EXAMPLE 2. Arm is extended at an angle. Hold each position for two beats.

Ho'omākaukau! 'Ae, E Pele! Pā!

E Pe-le, E Pe-le ka-'u-ka-'u-li, a-na

2 E Pe-le, E Pe-le hu-a-'i na-hua'i, - ha

3 E Pe-le, E Pe-le 'o-ni lu-na 'oni lu-na

4 E Pe-le, E Pe-le 'o-ni la-lo 'oni la-lo

5 E Pe-le, E Pe-le a-'o \*ku-li pe-'e-nui

# الادر رادر در در در

6 Ha - 'i - na ka i - no - a No · Pe - le, la, 'e - a



E-āla, E-ā la, E-ā a i

#### Translation

- 1 Pele, Pele, hissing along
- 2 Pele, Pele, bursting forth
- 3 Pele, Pele, moving upward
- 4 Pele, Pele, moving downward
- Pele, Pele, hide your big knees
- 6 In the name of Pele

\*kulipe'e - creep

"We learned it kuli-pe'e nui"

knee -hide-bic

Nona Beamer



The following lessons were developed to accompany the Social Studies 4th grade guide, Early Hawaiian Life, pp. 33-69.

## Grade 4, Unit 11/111

CONTENT AREAS

**EMPHASES** 

SOCIAL STUDIES

Migration

Polynesian migration Reasons for migration .
Migration theories
Impact on Hawai'i

Other Ethnic Groups Reasons for migration Impact on Hawai'i

Canoe building

Process of canoe building

Tools and resources

Role of the 'ohana

Role of religion

SCIENCE

Winds, currents and clouds Effects on speed, direction and weather prediction Navigation when these factors change

Seabirds
Aids in navigation
Identification of seabirds today
Conservation practices

BEST COPY AVAILACI.



#### LEARNER OBJECTIVES

#### APPENDICES

- Investigates the different theories on the <u>migration</u> of the Polynesians to Hawai'i.
- Recognizes that the Hawaiian culture and way of life is now a part of America's multi-ethnic society.
- Recognizes that within any ethnic or racial group an individual is unique, similar to but different in some way from all other fellow members of the group and from other people.
- Identifies all of the plants and animals brought to Hawai'i by the Polynesians.
- Discusses some of the dangers likely to have been encountered on long ocean voyages in Polynesian sailing canoes.
- Recognizes the human physical, emotional and spiritual needs which had to be satisfied on long ocean voyages in Polynesian sailing cances.
- Identifies methods used by the Hawaiians for finding answers to questions and for solving problems such as referring to legends or keen observation.
- o Identifies ways in which the Hawaiians changed the land, environment and biota. (See <u>Early Hawaiian Life</u>, pp. 37-38, for other objectives.)
- 1-5. See Science in Hawaii pg. N2 for Science objectives in "Hawai'i's People."
- Identifies all of the plants and animals brought to Hawaii by the Polynesians.
- Discusses the possible origins of the <u>menehune</u>, taking into account archeological evidence that the immigrants from Tahiti were probably much bigger than previous immigrants.
- Discusses some of the dangers likely to have been encountered on long ocean voyages in Polynesian sailing canoes.

- Unit II/III-B "Navigation", pp. 73-75
  - -C Hawaiian Seabirds, p. 76
  - -H Hawaiian Vocabulary for Clouds and Weather, p. 83

## CONTENT AREAS

#### **EMPHASES**

## SCIENCE (CONTINUED)

Population dynamics: "Hawai'i's People"
Factors affecting Hawai'i's growth and decline patterns
Benefits and detriments of population change
Hawai'i's future population based on extrapolation of data

Polynesian-Hawaiian skies Constellations Main stars

## LANGUAGE ARTS

Journal writing

Interviewing skills

Reading Ethnic folktales Legends of migration

Comparing Hawaiian legends with other ethnic folktales

Creative writing

Writing a play

Voyage to New Island

Producing the play

Poetry - Composing poems for chants about canoe building

#### LEARNER OBJECTIVES

#### APPENDICES

- Describes some of the natural phenomena in Hawai'i using their liawaiian names.
- Discusses the impact of population changes in Hawai'i's history and identifies factors related to population dynamics.

- Recognizes that within any ethnic or racial group an individual is unique, similar to but different in some ways from all other fellow members of the group and from other people.
- Recognizes that the Hawaiian culture and way of life is now a part of America's multi-ethnic society.
- Discusses the possible origins of the menehune, taking into account archeological evidence that the immigrants from Tahiti were probably much bigger physically than previous immigrants who probably came from the Marquesas.
- Identifies some pre-historical figures and tells why they are important in Hawaiian history.
- Works with partners or groups on Hawaiian language and/or culture oriented activities such as an oral presentation, a bulletin board display, an Aloha Week/May Day pageant, or <u>Makahiki</u> Festival.



# CONTENT AREAS

#### **EMPHASES**

HEALTH/FOOD AND NUTRITION

Concepts of self and 'ohana Who am I? I'm glad I'm me

Cultural medicines and home remedies

Food preparation for long voyages

Comparison of Hawaiian food with other ethnic foods Nutritionally Calorie level

Diet and health considerations for canoe paddles and other athletes

# Music

Singing with 'ukulele accompaniment
"I Am What I Am"
"You Gotta Feel Aloha"

Singing other ethnic songs
"Siva Siva Haia" - Sāmoa
"Sakura" - Japan
"Planting Rice" - Philippines
"Blue Flower" - China
"Arirang" - Korea

Chanting
"Hoe Aku I Kou Wa'a"
Creating chants about canoe building

Canoe songs
"Ku'u Wa'a"
"Nā Hoe Wa'a"

#### LEARNER OBJECTIVES

## APPENDICES

- Names many of the foods taken on a long voyage and indicates why they were and are important nutritionally.
- Works with partners or groups on culture oriented activities.
- Listens to and accepts opinions of others in group, discussions.
- Recognizes the human physical, emotional and spiritual needs which had to be satisfied on long ocean voyages in Polynesian sailing canoes.
- Shares feelings about why one likes or dislikes Hawaiian food.
- Practices behavior that illustrates respect for self, fellow schoolmates, teachers and community resource people.
- Classifies common Hawaiian foods using the basic food groups classification.
- Compares the eating habits of many Hawaiians today who eat American food with high fat and refined sugar content and low fiber content with the eating habits of Hawaiians of former times who ate generally a vegetable diet supplemented by seafoods and occasionally meat protein.

- Unit II/III-D Basic Food Chart, p. 77
  - -E Nutritional Value of Foods in Hawai'i, pp. 78-79
  - -F Food for the Athlete, pp. 30-31
  - -G Myths About Food, p. 82

- Sings selected Hawaiian songs introduced by the teacher or <u>kupuna</u> while playing rhythmic or harmonic instruments (<u>'ukulele</u>, guitar, auto harp or Hawaiian instruments) in time with the beat.
- Performs from memory a simple Hawaiian chant.
- Defines indigenous and acculturated in relation to the fact that most cultures have music that is distinctly their own and they also have music that is a mixture of their own and that of other cultures with which they have had contact.

Unit II/III-A "Hoe Aki

"Hoe Aku I Kou Wa'a", p. 72

Musical Compositions About Hōkūle'a, p. 84

CONTENT AREAS

**EMPHASES** 

Music (Continued)

Listening
The Musical Saga of the Höküle'a, "Wa'a Höküle'a"

ART

Multicultural arts and crafts

Pencil and pen drawing

Origami (Japanese paper folding)

Chinese paper cutting

Chinese kites

Japanese brush painting

Mobile - seabirds

Carving a canoe

Plaiting lau hala

Braiding laha (sennit cord)

# LEARNER OBJECTIVES

#### APPENDICES

 Writes prose or poetry in English, using Hawaiian words and expressions where appropriate, expressing the student's feelings about Hawai'i, Hawaiian food, music, dance, people and history. Unit II/III-J Journey of the Höküle'a - 1980, p. 85

 Demonstrates an appreciation and understanding for ethnic cultures by engaging in arts and crafts activities of those cultures.

# CONTENT AREAS

**EMPHASES** 

GAMES AND RECREATION

Creating physical awareness
Simple concentration on body parts
Learning ethnic games
Creative movement - hula
Games and sports relating to the kai (sea)

#### LEARNER OBJECTIVES

#### APPENDICES

- Illustrates the tonal-rhythmic patterns of a Hawaiian chant through singing and performing interpretive dance patterns and body movements.
- Coordinates motions and movements of hands and feet while performing a traditional hula kahiko or hula 'auana.
- Participates competitively in Hawaiian games and sports.
- Relates the use of Hawaiian games and sports and quieter pastimes in former times to improving coordination and agility, physical strength, logical thinking and memory.
- Relates the use of Hawaiian games and sports and quieter pastimes to the training of youth ul ali'i for leadership in former Hawaiian times.



#### SCIENCE

• The following activities allow the children to study the signs of nature and how the Hawaiians used these signs to navigate from one point to another.

Review the signs used by the immigrants in navigation. Now that they have experimented with wind and current, have them experiment with cloud formations.

- 1. Take them out onto the playground and have them observe cloud formations.
- 2. Ask:

139

- a. Are there many different types of clouds?
- b. How many different types do you observe?
- c. Can you predict weather by studying clouds?
- Use an encyclopedia or a science book to find out the different kinds of clouds.
- 4. Have the children observe the cloud patterns for a week and record the weather and the name of the cloud on a chart. E.g.:

Date	Name of Cloud	Weather	
	English Hawaiian	English Hawaiian	
	-		
	1		

#### LANGUAGE ARTS

- Language activities to help children become aware of culture transference
  - Have the children write a diary or daily journal
    - a. Conduct a lesson on journal writing. Read excerpts from journals written by visitors to Hawai'i such as:
      - C. S. Steward. <u>Journal of a</u>
        Residence in the Sandwich Islands,
        University of Hawaii Press, 1970,
        pp. 39-42.
    - b. Encourage the children to write about what they can envision on a long journey and mostly about the feelings of fright, apprehension, joy, etc., that may be experienced on such a journey.
    - c. Have them keep a record of their imagined journey for about seven days. Have them include the food they would eat and the activities they would engage in.
  - 2. Develop the children's interviewing skills
    - a. Have the children practice interviewing techniques in the classroom with each other. Work on courtesy, good listening and questioning techniques, attentive response and genuine interest.
    - b. Teach them how to use the taperecorder.

#### HEALTH

 The following activities can be used to help children become aware of the contributions made by their cultural groups to life in Hawai'i.

Concepts: Self and the 'Ohana

See <u>Early Hawaiian Life</u>, p. 51, for genealogy chart.

- 1. Reproduce this chart for the children and have them interview their grand-parents to find out more about themselves.
- 2. Encourage them to bring pictures of their parents or grandparents, siblings, and especially of themselves to share.
- 3. Set up a "cultural corner" and have these pictures displayed.
- 4. Have the children write a brief narration about themselves telling why "I'm Glad I'm Me". Mount these with their genealogy chart on the board.
- 5. Talk about the concepts of self and the 'ohana.

See: Early Hawaiian Life, pp. 208-223

Nã Ki'i Ho'ona'auao, 17" x 22" posters illustrating these concepts

Recall and remind the students of these 'ohana concepts at every opportunity you have daily.

#### Husic

 Music activities to help build self concept through ethnic identity and appreciation.

Song: "I Am What I Am"

Nusic, Grade 6, Comprehensive Musicianship Program, p.3.

This song can be taught after the lesson in health on selfconcept and 'ohana.

- 1. Talk about the words to the song and what they mean.
- If the LP, I Am What I Am, Decca Records, is available, play the song for them. It is sung by Danny Kaleikini.
- 3. Chant the song according to rhythm and stress.
- 4. Sing the lines and have the children repeat them after you.
- 5. Have the children point out similar lines and decide where in the song they want to sing louder (fortissimo) or softer (pianissimo).
- 6. Talk about feeling "maika'i" (good). Discuss the concept of aloha as part of feeling good about oneself.

Song: "You Gotta Feel Aloha," recorded on an LP of the same title by Al and Clayton Nalua'i.

141

#### ART

 Art activities to help build self concept through ethnic identity and appreciation.

#### My favorite activities

- Have the children listfour things they enjoy doing during their free time.
- Encourage them to meet in groups of four to six students and share why they enjoy those activities.
- 3. Have them sketch rough drafts on manila paper of such activities. Encourage them to draw big pictures and to color them appropriately.
- 4. Have them share these posters with the other 4th grade classes.

My transportation (an illustration to accompany the journal writing under language arts.)

Have the children imagine what their wa'a (canoe), ship, boat, kayak, or whatever they traveled on looks like. Have them sketch it on white drawing paper using a soft lead #2 pencil. Teach them to do shading.

#### GAMES AND RECREATION

- Physical and cultural awareness activities to improve self awareness.
  - 1. Have the chidren share how they feel about their physical bodies.
  - 2. Have them close their eyes and concentrate on the body area that you name. Have them mentally push all of the stress out of each part of their bodies so they become aware of their kino (body).
  - 3. Work on one body part at a time. Name the body part and give them the Hawaiian equivalent. E.g., "Concentrate on your manamana wawae (toes). Move them, wiggle them, stand on them, relax them. Raise your lima (hands) above your heads. Shake them (luliluli), clap them (pa'ipa'i), etc."

Continue with this kind of exercise to motivate each child to be aware of each body part as he/she exercises the part.

- Cultural games to build cultural awareness
  - 1. Assist the children in researching the games they play that originated in another country.
    - a. Jump Rope
    - b. Jup Jee jacks
    - c. Tiak Een Jeer badminton

Reference: Young and Lum. Chinese. University of Hawai'i, pp. 24-25.

- 2. Talk about why people play games...
  - exercise
  - physical fitness
  - fun and relaxation, etc.

#### SCIENCE

For Hawaiian vocabulary relating to clouds and weather, see: Appendix Unit II/III-H. p. 83.

- 5. If you were a Polynesian voyager, which cloud formations would you watch to determine when to set sail?
- 6. Identify the seabirds that the Hawaiians used as indicators of land.
  - a. Find out about their habits and their habitat.
  - b. Locate these seabirds today around the island and mark them on a wall map. Source: Lindo. Polynesian Seafaring Heritage, pp. 133-136.
  - c. Find pictures of the birds or draw pictures (in art) and create a bulletin board display of waterbirds.
  - d. Invite a guest speaker to present a talk on what is being done today to preserve the sea birds.
  - e. Teach the children the Hawaiian names for these birds. See:
    Appendix Unit II/III-C, p. 76
- 7. Population dynamics is the study of factors that affect a population. The following science lesson can be used to explain Hawai'i's population changes from the early migration period.

#### LANGUAGE ARTS

- c. Have them conduct the interview in Early Hawaiian Life, p. 40 using a tape-recorder.
- d. Encourage them to allow their grandparents to share cultural things about their lives in addition to answering the guide questions.
- 3. Plan a field trip to a cultural center to view collections and displays of the various ethnic groups.
  - a. Bishop Museum
  - b. Waipahu Cultural Gardens
  - c. Chinese Cultural Plaza
  - d. Japanese Byodo-In Temple in 'Ahuimanu
  - e. Honolulu Academy of Arts
  - f. Mission Houses Museum
  - g. Chinatown
  - h. Lyman House Museum
  - i. Baldwin House Museum
  - j. Kaua'i Museum
  - k. Kamuela Museum
  - 1. Hāna Cultural Center/Museum
  - m. Polynesian Cultural Center call 293-3118 for pre-visit assistance.

#### HEALTH

- 6. Study cultural medicines
  - a. Encourage the children to share some "home remedies" their parents or ancestors brought with them to Hawai'i. Talk about the uses and the danger or lack of danger involved.
  - b. Visit an herb store or herbalist to find out if the immigrants did bring some knowledge of how to take care of simple ills.
- 7. International luncheon

To culminate this study of ethnic cultures within your classroom, plan . an international luncheon with the children. Try to have a representative dish from each cultural group represented in your class. Some of the dishes may be made in class a few days early such as kim chee or Filipino rice cake so that the children con see how they are made. Others can be prepared at home with the child helping the parents prepare the food. A sign-up sheet should be sent home so there are no duplications. Have the children sing and dance the songs they learned in music.

Resource: Unit on Nutrition.
Nanakuli Model Schools Project,
Department of Education, State
of Hawai'i, TAC 73-6465. 1973.
(Contains many excellent suggested
activities for classroom use.)



#### Music

phrasing.

- This song has a very catchy rhythm so the children must listen carefully. Play the recording two or more times through and have the children listen for
- b. Have the song written on a chart. Follow the words with a pointer and the second time through encourage the children to think about the words. Have them share the meanings of aloha by pointing them out on the chart. Underline the meanings of aloha in the song.

  Encourage the children to suggest more meanings of aloha
- c. Have them say the words in correct rhythm.
- d. Have them sing the song, verse first, then the chorus.
- Ethnic songs
  - 1. Learn a variety of ethnic songs.

See: Kelly. Folk Songs Hawai'i Sings.

"Siva Siva Maia," p. 34 "Sakura," p. 42 "Planting Rice," p. 56

#### ART

#### • Ethnic art

- 1. Learn origami Japanese art of paper folding which is a favorite pastime with Japanese children. Reference: Florence Sakade. Origami.
- 2. Do Chinese paper cutting and Chinese kite making. Reference: Young and Lum. chinese, University of Hawai'i, pp. 25-33.
- Experiment with Japanese painting and calligraphy.
  - a. Borrow Japanese brush drawings and scrolls from the Honolulu Academy of Arts lending collection. Talk about the space, painted versus unpainted.
  - b. Construction Materials needed: newsprint, black ink or water color, sumie brushes.
  - c. Demonstrate correct brush strokes: Press down with brush to create thick, bold line and lift up gradually while making the stroke until the line is light and thin.

#### GAMES AND RECREATION

3. Engage in some cultural games including Chinese jump rope. Discuss the kinds of skills involved in each of the games. Compare the Chinese Jup Jee (jacks) to the Hawaiian jacks game called kimo.

See: Mitchell. Hawaiian Games for Today.

DOE/OIS, Hawaiian Studies. Na Ka'ao Kahiko/
Illustrated Bilingual Hawaiian Tales, "Ka
ilo'olelo o Pa'ula," pp. 155-178.

4. Encourage the children to create new games using materials from the Hawai'i environment just as the Hawaiians did many years ago. Recognize Creativity and share the results with others. Please inform OIS/Hawaiian Studies or the District Resource Teacher of newly developed Hawai'i-oriented games and recreational activities so that these may be given statewide exposure in inservice training sessions.

SCIENCE

LANGUAGE ARTS

HEALTH

Everyone in Hawai'i including Hawaiians, is descended from immigrants. Study the factors that affect a population. Use the lesson plan, from Science in Hawai'i, "Hawai'i's People", pp. NI-NIO. The accompanying video tape is available at the ETV Center at Manoa Elementary School. Call 988-2117 and allow one to two weeks for processing and delivery.

Also check with your district office.

4. Read folktales of various ethnic groups.

E.g.,

Lattimore, Eleanor. Peach Blossom.
N.Y.: Harcourt, 1943.
Louie, Ai-Ling. Yeh-Shen: A Cinderella
Story from China. N.Y.: Philomel
Books, 1982.

Who were the real menehune or Tahitian manahune? Account for the mythical menehune now discussed in Hawai'i. An author cited below (Luomala) suggests that menehune stories showing their power to do things the ali'i could not do (feats of building in one night, etc.) was a way by which the oppressed class got back at the oppressive ali'i. It showed the ali'i beholden to the common people. Consider if the menehune mentioned in legends could have been Marquesans who were smaller physically than the Tahitian ari'i who came with Pa'ao in the 1200's A.D. Menehune in Hawaiian also means to gather together to complete a task like the legendary race of small people who worked at night. In Hawaiian, manahune literally means destitute of power, which could well describe the condition of the smaller early settlers compared to their new Tahitian overlords.

#### References:

Barrow. Incredible Hawai'i.
Hyerdahl. Voyage on the Raft Kon Tiki.
Luomala. Menehune of Polynesia.
Mitchell. Resource Units in Hawaiian
Culture, Unit II, "Polynesian Settlement Pattern," p. 15.

#### Music

ART

#### GAMES AND RECREATION

"Blue Flower," p. ôô "Arirang," p. 72

- 2. Encourage a Japanese parent or resource person to teach the children a Japanese dance. Do the same for any other ethnic group represented in your class. Tape the songs for future reference.
- 3. Look for films that depict special ethnic ceremonies such as the Japanese Tea Ceremony.

Additional sources:

Gillett. Comprehensive
Musicianship Through Classroom Music, Grade 4,
pp. 112-123.

Hawai'i Multicultural Awareness Project. UH Col. of Education-CRDG, 1977:

Grade 4 program, <u>Times For</u> Celebration.

Grade 5 program, Families In Hawai'i, Units I - IV.

In sharing artifacts and customs brought by immigrants to Hawai'i, students will come to realize the common thread of immigration which runs through most of our families.

- d. Have the children begin by copying Japanese characters for happiness, good luck, long life, the seasons.
- e. After some practice sessions, they can draw insects, birds, bamboo, carp and grasses.
- f. Mount these brush paintings like scrolls for wall hangings.
- 4. Other ethnic art projects may be found in:

Rainey. Ethnic Art Projects. Hawai'i Hulticultural Awareness Project, UH College of Education-CRDG, 1977.

#### SCIENCE

LANGUAGE ARTS

HEALTH/FOOD AND NUTRITION

 Study the Hawaiian skies, especially the Dipper - Nāhiku, Arcturus - Hōkūle'a, North Star - Hōkūpa'a, Sirius - 'A'ā

Source: Lindo. <u>Polynesian Seafaring</u> <u>Heritage</u>, pp. 112-121.

- 1. Study the constellations (nā huihui) in the northern and southern skies and highlight those stars (nā hoku) that were important in navigating to and from Tahiti. E.g., in Canis Major, Sirius ('A'ā) is the star that passes directly over Tahiti. In Bootes, Arcturus (Hōkūle'a) is a star that passes directly over the island of Hawai'i.
- 2. Study the navigation of Polynesians from New Guinea to Easter Islands.
  Source: National Geographic Magazine,
  December, 1974, pp. 732-756.
- 3. Have each student select one constellation to research and report on to the class (see art lesson for illustration)
- Review the winds and currents of the Pacific Ocean and how they affected speed and direction.
  - 1. Read excerpt from Appendix Unit II/III B, pp. 73-75. This article describes navigation in clear weather, windy or stormy weather and cloudy weather when the stars were under cover.

 Reading and writing stories about early voyages to and from Hawai'i. An excellent collection of stories is in the set of story books published by the Polynesian Voyaging Society.

A Canoe for Uncle Kila

A Voyage to Tahiti

Hőkűle'a

The Vision of Mo'ikeha

1. Read or tell the children about the "History of Mo'ikeha."

Resource: Lindo. A Curriculum Guide on Polynesian Voyaging (Teacher's Guide), pp. 37-41.

Other sources of Mo'ikeha legends:

Fornander. Collection of Hawaiian Antiquities and Folklore, Vol. VI, No. 2, p. 323.

Malo. <u>Hawaiian Antiquities</u>, pp. 7-9, 134.

- a. Discuss some cultural differences between early and modern Hawai'i.
- b. Talk about the roles played, education, decision making, religious implications and expertise involved in navigation.
- 2. Creative writing. Have the children imagine themselves as canoe paddlers or navigators on voyages in search of new islands on which to live. Have them plan the voyage just as described in stories they have read.

• Food preparation for long voyages

- 1. Study the nutritional value of the foods the Polynesians brought to Hawai'i. (Refer to Early Hawaiian Life, p. 35 and Appendix Unit II/III-E, pp. 78-79.)
  - a. Talk to nutritionists or have a nutritionist visit the class to talk about the food products.
  - b. Prepare a chart showing the nutritional value of each food.
  - c. Prepare a menu that a voyager may have had daily on a long trip for breakfast, lunch, and dinner, including a snack. Include the amount eaten (e.g., 1/2 cup, etc.) Check this food intake with the daily requirements for good health using the Basic Food Chart. See Appendix Unit II D, p. 77. Discuss and then determine if this diet was a "healthy diet."
  - d. Write a menu for a canoe paddler today. Compare the food intake, the nutritional value and the cost of these foods for one day with those of an early Hawaiian paddler.
- 2. Dry some foods just as the early Hawaiians did.

i'a - fish kalo - taro mai'a - banana <u>'uala</u> - sweet potato

<u>'ulu</u> - breadfruit

NOTE: These activities are continued on the NEXT page....

## SCIENCE

- 2. Refer to Lindo. Polynesian Seafaring Heritage, pp. 102-107, for a description of how the Polynesians used the signs in the clouds wind, currents, floating debris, sun, stars and birds to guide their canoes. This article contains diagrams and pictures adapted from the December 1974 issue of National Geographic Magazine. Enrichment activities can be found on p. 107 of this reference.
- 3. Set up an experimental corner. Get a large pan of water. Make a canoe model and place it in the pan. Set up weather conditions using a fan for wind and experiment to see how wind and current forces affect the canoe.

Have the children generalize the concept that energy forces cause movement and change.

#### LANGUAGE ARTS

Encourage them to include

- a. Preparation
- b. Actual voyage
  - 1) Navigation
  - 2) Signs
  - 3) Food (fishing)
  - 4) Feelings (fright, weariness, etc.)
  - 5) Weather, dangers
- c. Arrival
- 3. Have the children use references to look up the meaning of PELAGIC (relates to the open sea as opposed to coastal waters). After doing other research on this topic, the children should write a paper on the differences between pelagic and land-based birds.
- 4. Culminating activity

Have the children select from the various writing assignments those which describe well the migratory voyage.

Have them work in various 'ohana committees to create a script for a dramatization of "A Voyage to a New Home."

## HEALTH/FOOD AND NUTRITION

pa'akai - salt, have the students gather salt on the rocky shores or try to make.

See: Handy. Ancient Hawaiian Civilization, 1965, pp. 95-96.
Lindo. Polynesian Seafaring Heritage, pp. 122-132. This source has a list of foods introduced to Hawai'i by the early settlers, pictures of the plants, and directions on

3. Compare the foods the early Hawaiians ate on long voyages with those eaten by other immigrant groups on their ocean voyages to Hawai'i. These could be the missionaries, contract laborers from Asia and Europe and others such as settlers and homesteaders from America.

how to dry Hawaiian foods.

Use the research results gained from activity #1 on the previous page. See: Appendix Unit II/III-E, pp. 76-79.

Use a wall chart to display the results of these activities. Show the immigrant group along the left matrix and the foods eaten from each of the Basic food groups.

#### ART

 Art activities relating to Polynesian migrations

#### 1. Constellations

- a. Have the children illustrate the constellations they selected to study in their science lesson #3, p. 64.
- b. Have the students create a white-on-black representation of the constellation using black construction paper, a white pentel or crayon, white glue and glitter.

#### 2. Movie roll

- a. Have the children plan a series of illustrations to go along with the creative stories which they wrote in activity 2 under language arts.
- b. Illustrate the stories utilizing the full sheet of letter or legal size paper and organize the illustrations into a movie roll to be shown to other classes.

The following lessons were developed to accompany the lessons found in the 4th grade Social Studies Guide, <u>Early Hawaiian Life</u>, pp. 56 to 70, "Canoe Building."

Grade 4. Unit II/III

#### SCIENCE

- The following activities allow the children to investigate the properties of the woods used in canoe building.
  - 1. Study the different trees used in canoe building
    - a. Show the children pictures of the trees used by the Hawaiians for canoe building; (See Early Hawaiian Life, p. 57) or,

Show them slides of these trees.

- b. Encourage the children to share their knowledge about these specific trees.
- c. Have them bring from their homes, articles that are made from the wood of these trees.
  - E.g.: koa bowl, koa tray or anything that is made from any kind of wood (mango wood bracelet, milo bowl, monkey pod bowl.)
- d. Set up a corner display of all the articles brought by the children.
  - 1) Encourage the children to touch the articles carefully and lift them to see the variations in weight.

### LANGUAGE ARTS

- Activities in language that can be used along with the study of the canoe-building process.
  - Creative writing Imagine yourself as an apprentice of a kahuna kalai wa'a (canoe builder)
    - a. Describe how you were selected to be an apprentice. What qualifications did you have?
    - Explain the kind of training you have received. Include religion, skills, physical fitness program, etc.
    - c. Describe your place in the <u>kauhale</u> (complex). Are you highly respected?
    - d. Describe your first trip to the koa forests and what you observed there, the trip down the mountain, and the work in the hale wa'a (canoe house) to complete the canoe.
  - 2. Hawaiian language: Have the children learn the names of the different parts of the canoe. See: Early Hawaiian Life, p. 68.
  - 3. Poetry Motivate the children to compose chants about the canoe or of any of the steps involved in the building of a canoe.
    - a. Compose a chant that may be used by

#### HEALTH/FOOD AND NUTRITION

- Discussion questions on the health of a canoe paddler.
  - 1. Based on what we have charted, which group of immigrants appear to have had a well-balanced diet?
  - 2. Which group appears to have had a high calorie diet? Why did they need such a diet? (Hawaiians)
  - 3. If you are an athlete, or engage in heavy activity such as canoe paddling, what kind of diet do you need? See: Appendix Unit II/III-F, pp. 80-81.
  - 4. Which factor determines the energy you need? (activity) What is the source of that energy? See: Appendix Unit II/III-F, pp. 30-81.
  - 5. What particular foods are a good source of high energy?
  - 6. We hear people say that we should not drink water when we are playing. How true is this? Discuss myths about food. See: Appendix Unit II/III-G, p.82.

#### Music

- Composing and singing songs and chants about canoeing:
  - 1. Take the canoe poems written in language arts and set them to chants. If the children have not had enough experience with or exposure to chants, provide them with some listening experiences.
- 2. Look for records in your school library or check with the state library branch in your area for recordings.
  - 3. Ask your school <u>kupuna</u> to <u>kokua</u> in this activity. Ask the <u>kupuna</u> if he/she is able to do simple chants for the children.
  - 4. Ask your music resource person to present a lesson on Hawaiian chants and the minor 3rd pitch.
  - 5. Encourage the children to create their own style with their chants. Have them memorize them and then present them at a school assembly.
  - 6. Teach the children some canoe songs.

    See: Māhoe. <u>E Hīmeni Hawai'i Kā-kou</u>.

"Ku'u Wa'a," p. 36.

"Nã Học Wa'a," p. 92.

#### ART

- Art activities in canoe building
  - 1, Carving

Using <u>hau</u> or balsa, construct a simple outrigger canoe following the shape of a typical Hawaiian canoe. See <u>Early Hawaiian Life</u>, p. 68, for illustration.

2. Weaving

Make a lau hala sail.

- a. See: DOE/OIS. Resource Units in Hawaiian Arts and Crafts, pp. 69-74.
- b. Have the children experience the plaiting of <u>lau hala</u> including all the steps:
  - Gathering the leaves and cleaning them
  - 2) Dethorning, deribbing the leaves
  - 3) Wiping, softening, rolling
  - 4) Cutting into proper widths
  - 5) Softening strips
  - (6) Plaiting

#### PHYSICAL EDUCATION

- Physical fitness for canoe paddlers
  - 1. Ask
    - a. If you were living in early Hawai'i, what kinds of activities would help prepare you for canoe paddling and survival on a long trip to a distant land?

Allow the children to predict. (swimming, canoe paddling, running, wrestling, lifting heavy rocks, etc.)

- b. What do canoe paddlers today do to prepare for canoe paddling? (jogging, swimming, etc.)
- 2. Have the students participate in some physical fitness type activities from both the early Hawaiian period and the present day.
- 3. Participate in the Department's drownproofing program.
- 4. Have the children engage in some water sports to build strength, skill and coordination in the water. E.g.:

aho loa (long breath) - staying under water as long as the breath can be held

kaupua - swimming and diving for submerged objects

<u>lele kawa</u> - plunging feet first into water with the least possible splash

## SCIENCE

- 2) Divide a table in two halves:
  one for "heavy wood" and one for
  "light wood." Have the
  children agree on which side
  of the table the pieces should
  be placed. or
- 3) Give each child a sheet of paper with two columns and have them list the various woods in the "correct" columns.
- 2. Discuss what the children have learned about the uses of various woods in Hawaiian canoe building.
  - a. Talk about the various woods that the Hawaiians used for different parts of the wa'a (canoe). These included koa, kukui, wiliwili and 'ulu (breadfruit) for the hulls; hau and 'ōhi'a !ehua for the 'iako; and, hau and wiliwili for the ama.
  - b. Experiment with the various woods for their physical properties—bouyancy, workability, durability and resistance to insects and rot. Discuss these properties and how they relate to canoe building. Have the children express generalizations about the use of trees by the early Hawaiians.

## LANGUAGE ARTS

the kahuna kalai wa'a as he struck his ko'i (adze) into the trunk of the koa tree.

b. Compose a chant that may be used as the canoe was carried down the mountain. These poems, written in English, may be translated by the kupuna in your school or a community person, and set to chant form in music class. Ask your kupuna to kokua.

HEALTH/FOOD AND NUTRITION

Music

#### ART

## PHYSICAL EDUCATION

#### <u>Höküle'a</u> songs

- a. See: Lindo. <u>Polynesian Sea-faring Heritage</u>, pp. 159-167.
- b. See: Appendix Unit II/III-I, p. 84.
- c. Listen to: The Musical Saga of the Hokule'a, LP. Lyrics by Keli'i Tau'a and music by Roland Cazimero.
  - The words to the songs are included in the dust jacket of the album and should be used in teaching some of the songs to the children.
  - 2) This can be a rich listening experience for the
    children. Discuss with
    them how to use their imagination and provide them
    with any helpful hints
    you might know about effective listening techniques.
    - a) Tell them that they are going to be taking a trip to Tahiti in their imagination.
    - b) Show them a transparency of the map in Appendix Unit II/III-J, p.85.

161

3. Braiding 'ana

Make a ball of <a href="mailto:aha">aha</a> (sennit cord) to use for tying the parts of the canoe together. See: <a href="Early Hawaiian">Early Hawaiian</a> Life, p. 67

4. Make a <u>kā wa'a</u> (canoe bailer) using a coconut shell.

See: DOE/OIS. Resource Units in Hawaiian Arts and Crafts, pp. 34-35.

 Activities to build awareness of the physical fitness required by the paddlers of Hawaiian double- and single-hulled canoes.

Hula - Creative movements for canoe paddling

- 1. After learning the canoe chant, "Hoe Aku I Kou Wa'a," in music activity #7, encourage the children to create hand and body movements for the chant.
- 2. Write the English interpretation on a chart and let the children create body movements for the chant.
- 3. Talk about the physical fitness needed for long journeys to distant islands. Encourage the children to dramatize possible types of activities that the Hawaiians engaged in to improve their fitness.
- 4. Using Mitchell's Hawaiian Games for Today, decide together on a couple of sports that the Hawaiians may have used to prepare their bodies for these long trips. Teach these games to the children. If this source is not available, see: Dunford. The Hawaiians of Old, pp. 158-164.

Music

Music

- c) Discuss with them the distances that the Polynesians had to travel and how long it took them to travel using wind and paddle power.
- 3) Play "Doldrum Blues" without revealing the title.
  - a) Have the children describe where they are and how they feel.
  - b) Have them explain why the music makes them feel that way.
- 7. Introduce a simple chant for canoe paddling:

"Hoe Aku I Kou Wa'a" by Violet-Marie Mahela Rosehill. See: Appendix Unit II/III-A, p. 72. Write the words on a chart.

a. Discuss familiar vocabulary:

 Chant the entire chant for the children. Get kokua from kupuna/resource persons if needed.

- 8. Learn the chant which Kamahu'alele was believed to have chanted when he arrived in Hawai'i from Tahiti. See Mitchell.
  Resource Units in Hawaiian Culture, p. 18.
- 9. Composing Encourage the children to write their own four-line chant. Write the lyrics and then set the poem to chant form using two or three tones.
- 10. Song:

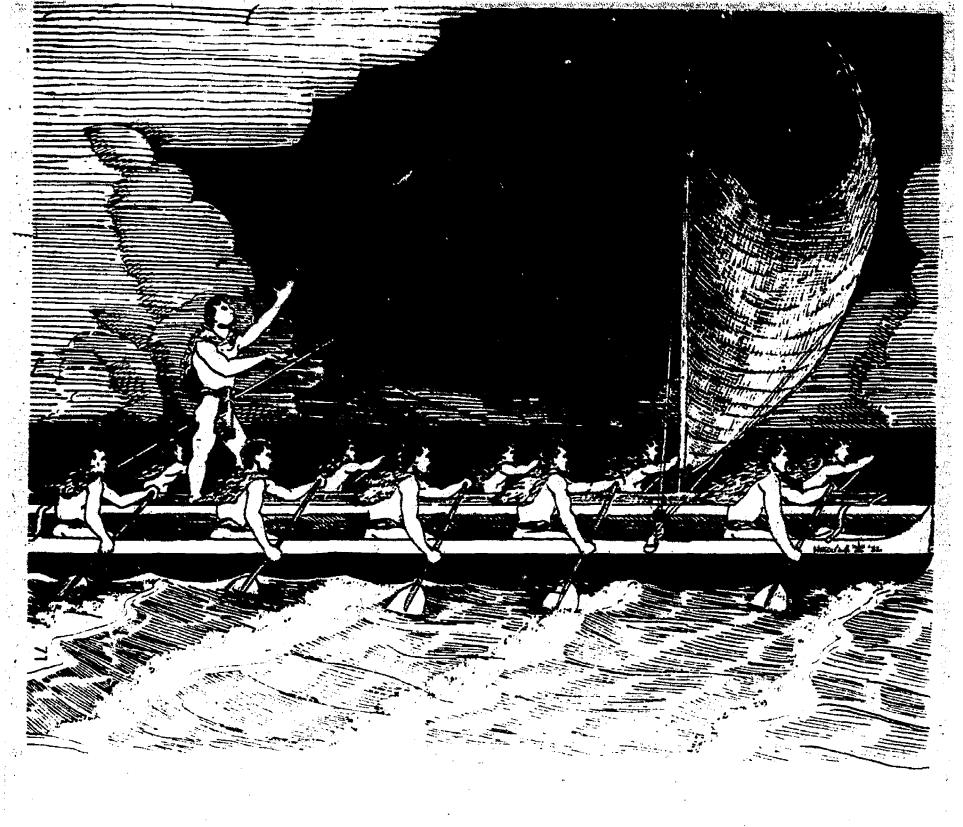
"Kā I Ka Hoe" by Irmgard Aluli. Recorded on <u>Keiki O Waimānalo</u>, LP, Tradewinds Records.

- a. Because the words of this song are repetitive, encourage . children to create paddling motions for this number.
- Phrases to focus on:

  Ka i ka hoe pull on
  paddle with all of
  one's strength;
  Pa'a i ka hoe grasp
  the paddle.
- c. Decide:
  - 1) How many paddlers will be needed for a wa'a kaukahi

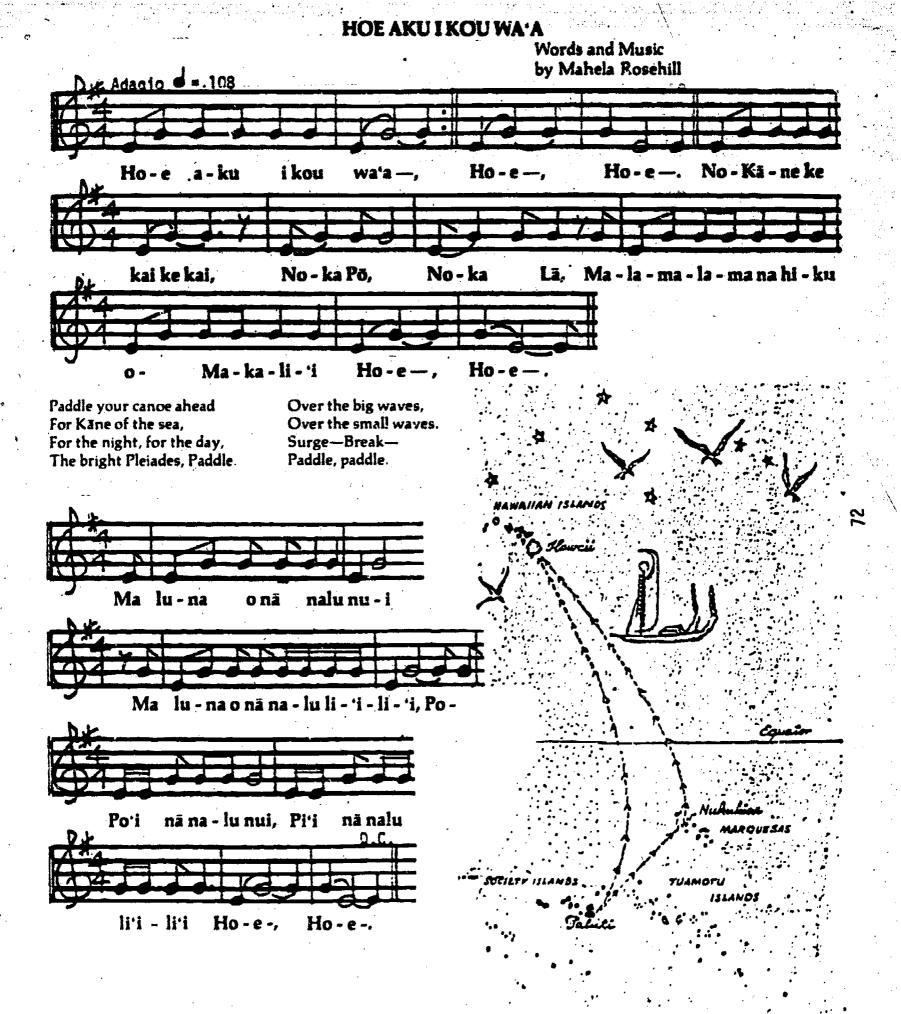
- (single hulled canoe) or a wa'a kaulua (double hulled canoe)?
- 2) How many canoes will be needed to accommodate the class?
- 3) How many strokes will be paddled on one side of the canoe before changing to the other side?
- 4) How will paddlers know when to change sides?
- 5) Who will be ho'okele (navigators)?

Listen to the music and words of the song to set the mood for the activity. Pay close attention to the phrases and encourage creative paddling motions.



# ALAKA'I





Reprinted with permission of the Polynesian Voyaging Society and the Kamehameha Schools/Bernice P. Bishop Estate.



# PEST CUPY MALCHILE

CHAPTER 22

#### NAVIGATION

KENNETH P. EMORY

There is no one with Hawaiian blood in his veins who would be here if it had not been for the knowledge, skill, hardihood, and adventurous spirit of his Polynesian ancestors. They traversed the Pacific, the greatest of all oceans, and came to the hundreds of lovely islands which they first discovered and colonized. They did this at a time when the English were being Christianized and introduced to civilization. Let us consider how they accomplished this, an enterprise that properly should rank, among the great achievements of human history, and one that must have been flooded with human drama.

Fortunately, through the researches of the Bishop Museum and other institutions, we do know something of how these islands were peopled. We are sure that the Polynesians are not descendants of survivors of a people who clung to the tops of a sinking continent or sinking archipelagoes, nor is their culture a remnant of a great and ancient civilization that once occupied the middle of the Pacific. They are recent arrivals on the last bits of fair earth to be occupied by man, and they brought with them a heritage of an ancient continental civilization, which they adapted to their new life in the island environment.

The Hawaiians were evidently quite satisfied with their new home, for they gave up long ocean voyaging probably five centuries ago. It became more or less of a lost art with them. Their canoes were descendants of the canoes in which they came originally, and their inter-island travel embodied some of the ancient art of ocean travel. But we have only to go to a very intimately related branch of the Polynesians, the Tahitians and their neighbors, who were making fairly distant voyages up until a few

133 - 3 ANCIENT HAWAHAN CIVILIZATION

years ago, to judge how the ancestors of the Flawaiian people performed them. Let us consider first the vessels in which the voyages were made, and their equipment; then the preparation for a long voyage, and finally, how the cances were guided over the ocean.

#### AEZZETZ

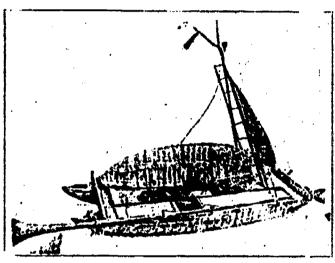
The Hawaiian outrigger canoes you see today differ very little from canoes seen by Captain Cook. The only difference is that the fore and end pieces of the canoe. menu, are now made out of one solid piece instead of two, and that these and pieces and the board, mob. attached on each side, are now nailed on instead of being lashed on. The lashings of the outrigger of modern canoes are not nearly so next as those made in the old days. In Cook's day there were much larger cannes, and also double canoes rigged with the Hawaiian sail which went out of existence more than one hundred years ago. The large double canoes, rigged with a mat sail, were quite suitable for inter-island travel. Some very large Hawaiian cances were rade from great California redwood logs which drifted to these shores. The rotting hull of one 108 feet long was still to be seen in the 1870's. The hulls of Hawaiian canoes were always in one piece. The trees, when not redwoods, were carefully selected by the kahuna kalai wa'a who slept in a house in a heiau for a vision to guide him in his choice. A sacrifice of a red fish, of coconuts, and awa, was made before the felling of the tree. Ceremonies were performed at every stage in the shaping of the log, of its dragging to the shore. of its building in the cance shed, and finally at its faunching. The cance was smoothly finished off by rubbing with sand caught in the meshes of coconut husk fiber, or by shark skin, it was then painted black with burnt kukui nut mixed with oil. The trimmings of a royal cance were painted red.

In Tahiti, hulls of large canoes were made of several sections of hollowed-out log joined together. The stern rose high out of the water and the bow was fitted with

NAVIGATION

239

a projecting plank. In the outrigger, the forward boom was not attached directly to the float, but indirectly by means of pegs. The double seagoing canoes were, most commonly, twin canoes. Each was built up of planks carefully fitted and secured in place by sewing with sennit. The seams were caulked with coconut fibre, perhaps soaked with breadfruit gum, and the seams were covered with battens held firmly in place by the sewing By this means, canoes could be built up to almost any size and could be varied as to shape. The space between the canoes was decked over, and on this deck were set



A Double Sailing Cance from the Tuametus

1Model made in 1854, of 5 cance then in existence. It was 60 feet long, 14 feet wide, 5 feet 8 inches deep, and carried 60 passengers.)

one or two masts and a deck house thatched with pandanus leaf. The sails were narrower and higher than the Hawalian sail but embodied the same principles.

The Tuamotu/ double canoes were the finest vessels in the Southeast. They were also built up of small pieces

Ancient Hawaiian Civilization, 1933
Reprinted with the permission of
The Kamehameha Schools/Bernice P. Bishop Estate





# BEST COPY AVAILABLE

240

ANCIENT HAWAIIAN CIVILIZATION

NAVIGATION

ANCIENT HAWAIIAN CIVILIZATION

sewn together. They differed, from the Tahitian and Hawaiian canoes in being equal-ended so that they could sail in either direction without tacking. This also enabled them to have a permanent cabin in one canoe which would always be on the windward side. The sails were wider than the Tahitian sails and could be lowered and furled. This was a real ship, accompdating comfortably sixty to one hundred persons. Great steering pars or paddles were necessary to hold it on its course.

The Tongan canoes were the finest sailing ships in Polynesia when the Europeans first came upon the scene. They reached the enormous length of 150 feet nearly twice the size of the trading schooners in the South Seas today. The Tonga double canoe had one canoe very much smaller than the other. The sail, though a fateen, or in other words, a triangular sail, was suspended from the mast by the middle of one side. The end of the mast was fixed on the deck or front of the cance and when it came to tacking, the sail, not the canoe, was reversed. The Tongan canoe was modeled after the Figure, the Tongans improving on the Filian. This Tongan-Figian canoe was perfected in about the 16th century when the Tongans were securing the central Pacific and penetrating north even as far as Fanning, 1000 miles from Hawaii, where they left two tombs of chiefs.

Canoes were equipped with ordinary paddles, steering paddles, bailers, seats, mat sails, and tassels of feathers or pernants of kapa flying from the masthead or outer end of the sail. Most old Hawaiian paddles were tipped at the end with a midrib on one side. Stone anchors were carried, although in the Tuamotus the usual method of anchoring a canoe was by diving and fastening the anchor to a coral head.

#### PREPARATION

It is altogether likely that at the height of the colonization period when whole families with their retinues, their household property, their domesticated animals and plants were to be fransported, that canoes were built for

the purpose. They were undoubtedly larger and better than any Polynesian craft Europeans have seen in our times, centuries after the period of colonization had come to an end in preparing for a long voyage, canoes were carefully gone over. They were recaulked and relashed on all weak points and the rigging was overhauled. If the canoes were especially built for the voyage, preparations might extend over many months.

The stores of food and water were the next most important things to attend to. Water was stored in bamboo joints or in gourds or in coconut bottles. Of these, the bamboo could be most conveniently packed away on board. Sweet potatoes, taro, bananas, young drinking coconuts, and breadfruit would last a week or ten days and a supply for this period was put in. Yams would last two months. Among other lasting foods were mature coconuts and several prepared foods, such as fermented breadfruit, dried taro, dried sweet potato, and dried bananas. Pandanus food was another concentrated lasting preparation taken on a voyage. It was a yellow dough the consistency of putty, and was made by scraping the starch from the base of the keys, mixing it with coconut milk, and baking it. Fresh fish could be kept alive in bamboo aquaria, and shell fish would keep alive a few days. Dried fish was one of the staples of the long voyage Pigs and chickens were kept alive on copra and the dogs were fed that remains of the pigs, chickens, and scraps of fish. A few birds and fish might be caught at sea to round off the menu. Sand, earth, stones, and firewood were carried for the imu.

The Tahitians and the Tuamotuans rarely took more than twenty days' provisions. The Polynesian canoe is a fairly fast sailing vessel. With favorable winds it makes eight or nine knots. It has been estimated that with a fair following wind the great voyage from Tahiti to New Zealand could have been covered in about 11 days, and the Polynesians most carefully chose their weather. Tuamotu natives have been known to wait months at

Tahiti for the right season of the year to return home. In addition to waiting for a perfect day for the start, all omens must be right on that day, and the religious rites attending the departure must be completed.

#### NAVIGATION

Now, how were the great stretches of water between islands navigated? How was the way back to land found when canoes had been driven away from their islands, or out of their course by storms? We have our best information in answer to these questions from the natives of the Tuamotus. When the natives of Anaa in the Tuamotus set out for Tahiti, 250 miles distant, they dragged their fine twin ships from their neat canoe sheds and hauled them to the edge of the reef flat over the buits of coconut leaves amid their lively hauling chanties. The canoes were lined up with points on shore which gave the exact direction for them to pick up Matavai point on Tahiti and at sunset they took final leave of their friends and launched their canoes. They fixed on the first bright star directly ahead near the western horizon. When it began to sink into the horizon haze they guided on the star following this one. If you stop to think you will realize this is not so easy. The second star would not be directly above the first but slightly off to one side or the other. Here is where the lare of the Tuamotu astronomer came in. He was aware that all the fixed stars which sink on one spot on the horizon arise from one spot on the eastern horizon, and that these two spots never change as long as he remains in one place. These stars follow the same curved course through the sky and are said to belong to the same rua, or pit. The principal stars which follow a number of courses in both the northern and southern parts of the heavens were known by name. The Polynesian navigator could recognize and give the name of 150 or more stars and furthermore, what was of the greatest importance, he knew which belonged to the same parallel of latitude. He did not express it that way, of course, but said instead that they all issued from the same pit.

7.10A.1A.1A.13 Y40.1234



# BEST COPY AVAILABLE

NAVIGATION

If on this voyage to Tahiti, clouds suddenly began to

obscure the western sky, a man would be stationed in

front and keep a back sight on a star on the eastern

horizon, and on the stars following it If the whole sky

became overcast, he tell back temporarily on the slants

of the wind and waves. If the heavens cleared he would

search for stars on the western horizon known to belong

to the same series as the stars guided on when they

started

744

ANCIENT HAWAHAN CIVILIZATION

favorable winds were rare and occurred only in one bason. The shallow lagoon of Anaa in the daytime casts a reflection of a peculiar greenish color on any clouds that pass overhead. We saw this light at a distance of twenty miles and it acted as a beacon to us. I have been told that in rainy weather when coral islands are easily

told that in rainy weather when coral islands are easily passed by, that a pig on board would be carefully watched. If he got a whiff of land his nose would turn landward. Many such tricks must have been used by the Polynesians.

In black weather or rainy weather at night, a change in the winds would be immediately noted because the waves would not change their direction right away. Winds, also, were recognized as much by their character as by the direction from which they came, so that a native baffled as to his directions could often re-orient himself by recognizing a certain wind. In the knowledge of winds the Tuamotuans were most expert.

In the day time, the sun became the principal guide, supplemented by waves and winds, and in addition, currents. The rippling of the current could be detected by the eyes, and the general trend of currents in particular regions is fairly constant. The direction from which came sea birds roosting on land, or to which they returned at night, was a guide

Every intelligent Polynesian had a very clear notion of the cardinal points, N., S., E., and W., and of the points midway, and as soon as he could find a wind, or celestial body on which he could right himself, he would know if he was going in the likely direction of his island. A string in which knots were tied each day enabled him to keep good track of the days passed. As Tahiti was neared, usually great piles of clouds indicated where it stood long before it could be seen.

The return from Tahiti to Anaa was a much more difficult matter. The island is not very wide and is so low that a canoe can pass within eight miles in clear weather and not see it. Much greater care had to be exercised in choosing the weather, for Anaa lay to windward and the

This story illustrates how the Polynesian navigator made his way back when he was blown far from his island, or course. In 1821, three double canoes left Anha with 150 natives to pay their respects to the new Tahitian king. Two days out on their course they were met by a gale which scattered them and drove them in the opposite direction for a day and then left them in a calm. When the wind sprang up again one cance felt its way back to the course but was then surprised by a storm which drove it several hundred miles eastward. The people in shis cance then found themselves becalmed for more than a week during hot, dry days. Their two weeks provisions of water and food gave out and they were exhausted. Seventeen of the twenty-three men, fifteen women, and ten children who sailed on this vessel, died, A rainsform out a temporary end to their misery. Further heartened by a catch of three sharks, they hunted, for land. They finally discovered the tiny stoll of Vanavana, which they found uninhabited. They stayed here ten months preparing for the return voyage. On their way home they stopped at another island and in attempting to land they damaged their cance. They remained here eight months, repairing the damage and laying in stores of dried fish and pandanus cakes. They were about to embark when Captain Beechey came by and so learned of their adventure. They were well and happy andtaking their time to insure a safe return in their unusually small vessel, a double cance of thirty feet in

245

In exploring for new lands, a fleet of canoes, according to Maori tradition, would spread out in line, each canoe just in sight of another. With land birds ranging fifty miles out to sea, the chances of discovery of an island, by a fleet of five canoes, were very good, if they came within fifty or sixty miles on any side of it, even if it was a very low island.

Knowledge of Polynesian voyages helps us to appreciate the skill and daring of these first explorers and colonizers of the Pacific. At a time when our European ancestors knew little more than the world about the sheltered Mediterranean, our Polynesian ancestors were navigating the greatest of the oceans. And while Columbus and the European navigators of a much later date launched out with fear and trembling into the unknown, these earlier Polynesian navigators knew where they were going and how they were going to get there.

# HAWATTAN SEABIRDS

Hawaiian name	Scientific name	English name
'Ā	Sula sula rubripes Sula leucogaster plotus Sula personata dacty atra	Red-footed booby Brown-vested booby Masked or blue-faced booby
'Ewa'ewa	Sterna fuscata oahuensis	Sooty term
'Iwa	Fregata minor palmerstoni	Great frigate or man-of-war bird
¹Ou	Bulweria bulweri	Bulwer's petrel
'Ua'u kani, Hō'io (obs.)	Puffinus pacificus chlororhynchus	Wedge-tailed shearwater or moaning bird
יטֿויזי	Heteroscelus incanus	Wandering tattler
Hunakai	Crocethia alba	Sanderling
Koa'e kea	Phaethon lepturus dorotheae	White-tailed tropic or boatswain bird
Koa'e 'ula	Phaethon rubricauda rothschildi	Red-tailed tropic or boatswain bird
Kōlea	Pluvialis dominica fulvus	Pacific golder plover
Manuokū	Cygis alba rothschildi	White, fairy or love tern
Noio	Anous minutus melanogenys	Hawaiian tern
Pākalakala -	Sterna lunata	Gray-backed, bridled, spectacled or gray wide-awake tern

#### References:

Balazs, George W. Hawai'i's Seabirds, Turtles and Seals. Honolulu, Hawai'i: Worldwide Distributors, Ltd. McKeown, Sean. Hawaiian Animal Life Coloring Book. Honolulu, Hawai'i: Oriental Publishing Co. Munro, George C. Birds of Hawai'i. Ritland, Vt. and Tokyo, Japan: Charles E. Tuttle, Co. Pūku'i, Mary K. and Elbert, Samuel Hawaiian Dictionary. Honolulu, Hawai'i: University of Hawai'i Press, 1971.

## - BASIC FOOD CHART

**HAWAII'S HEALTH FOOD GUIDE** 

Basic IV

FRUITS AND VEGETABLES (1 serving)	II.		L PRODUCTS (4 serving	s)
High Vitamin A Foods		Whole wheat bread	1	-
. Carrots	<i>.</i> *	White bread, enrich	ned .	
Pumpkin or Squash		Cereals	•	
Sweet potato		Saimin		
Taro leaves		Macaroni		
Spinach		Spaghetti		
Broccoli		Taco shells		
Marung-gay	•	Brown Rice		
Swamp cabbage	•.	Enriched Rice	,	
Chinese white stem cabbage		Muffins		
Papaya — Mango		Crackers		
•	•	Com		*
High Vitamin C Foods (1 serving)		Buns — Rolls		•
Orange		4	·	
Grapefruit	III.	MILK AND MILK PRO	DUCTS (2-4 servings)	
Papaya /		Fresh milk	(	
Mango		Skim milk	<b>,</b>	
Guava juice		1% milk		. '
Pomelo		2% milk	**	
Tangerine		<del></del> · · · · · ·	•	
Orange juice		Non-fat dry milk	•	• .
Limes		Evaporated milk		
Tomato		Cottage cheese	,	
Cabbage, head		Yogurt		
Green pepper		Cheese	·	
Star fruit		Ice Cream		
Chinese white stem cabbage		Ice milk		
Broccoli		Frozen yogu t		
Cauliflower	•14	******* **** ****	<b>.</b>	1
0	14.	MEATS, FISH, POULTI		
Other Fruits and Vegetables (2-3 servir	ngs)	EGGS AND DRIED BEA	INS	
Peas		Beef		
Green beans	*	Chicken		
Bean sprouts		Pork	5	
Potato		Fish		
Ta		Liver		
Ban na		Egg		
Pineapple		Luncheon meats		
Apple -		Sardines		
Avocado		Peanut butter		
Breadfruit		Dried beans		
Peaches		Tofu	t	
Melon	7	Tuna		
Egg plant		Canned meats		
Poi			ui.	
	her)	VEGETABLE OILS AND	FATS (3 servings)	Grade
Raisins.		Margarine	Nuts	
C rumber		Buiter	Coconut	4
Torks		Vegetable oil	Cream	<u> A</u>
AC Sprouts		Salad dressings		P
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Mayonnaise	Whipped cream	Ē
Pagsion fruit		Bacon	Sour cream	Appendix
rasion null		Dacui		×

Hawaii State Department of Health, Nutrition Branch.



# NUTRITIONAL VALUE OF

#### BASIC IV FOOD GROUPS

GROUP I-HIGH VITAMIN A FOODS

Leafy, dark green and orange colored vegetables

1/2 cup serving GROUP I-HIGH VITAMIN C FOODS

1/2 cup serving

GROUP I-OTHER FRUITS AND VEGETABLES OF ALL KINDS

Two or more 1/2 cup servings

GROUP II-CEREAL AND CEREAL PRODUCTS

At least one or more serving at each meal.

# HOW TO CHOOSE ~

Use spinach, carrots, lūau, pumpkin, broccoli, sweet potatoes

The darker the color the better the food value.

Eat some raw everyday as a salad.

Vitamin A for healthy eyes, skin, blood and hair and to guard against infection.

Iron for building blood.

Dietary fiber for good elimination.

Other vitamins and minerals.

Use papaya, citrus fruits, tomatoes, guava, mango, melon, cabbage

Use high vitamin C juices fresh, canned, or frozen

One cup of tomato juice is needed to give the same amount of vitamin C as i/2 cup of orange juice.

Vitamin C for strong blood vessels, for healthy gums, for building blood and strong bones and teeth.

Dietary fiber

Other vitamins and minerals.

Use poi, taro, breadfruit as you do potato.

Island fruits and vegetables are best.

Vegetables and fruit may be frozen, canned or fresh.

Use in soups, stews, or casseroles.

Whole grain and enriched bread, rice and cereals give the most value for your money.

Enriched spaghetti, macaroni and noodle may be used to stretch meat or cheese and egg dishes.

# WHY THESE

Other necessary vitamins and minerals

Dietary fiber

Energy

Calories for energy.

Vitamins and minerals if whole grain or enriched products are used.

Vegetable protein which when combined with milk, eggs, cheese and meats will promote growth and health.



EGGS AND DRIED BEANS

Two or more servings

Limit eggs to 3 to 4

per week

Each two ounces

# GROUP III-MILK AND MILK PRODUCTS

Adults - 2 glasses Pregnant women - 4 glasses Children - 3 to 4 glasses Teenagers - 4 glasses

# HOW TO USE

GROUP IV-MEAT, FISH, POULTRY

All forms of milk are included: whole, imitation, nonfat dry or evaporated. Skim milk, buttermilk and nonfat dry milk are the same as whole milk except for the fat.

Use as a drink and in cooking

Use lean meats, fish and poultry

Stretch your meat with dried peas, beans, lentils, and tofu

Legumes and tofu are incomplete proteins and are best combined with meats or other animal proteins

# OTHER-VEGETABLE OILS AND FATS

Three servings or 1 teaspoon at each meal

Use oils and polyunsaturated margarines

Butter, bacon and other animal fats are saturated and high in cholesterol

Oils and fats are very high in calories. Limit amount of fat when weight watching.

# **FOODS**

# ARE

# RECOMMENDED

Calcium to build and protect bones, teeth and nerves and to regulate muscle action

Protein for building blood and growth

Vitamins A, D, riboflavin and phosphorus

Protein for growth and body repair

Iron for building blood

Other vitamins and minerals

Fats for energy

Calories for energy

Essential fatty acids, vitamin A and vitamin E

Hawaii State Department of Health Nutrition Branch, 1979



#### Food for the Athlete

#### Athletes Need Energy

Food is the Source - You the athlete need special sources of energy. The source is food. Your activity determines the energy you need. Food supplies the energy for short or long term energy. Begin with a good diet and then eat for your special needs.

#### Energy Needs for Different Sports

Short-Term Energy - Sports like the 50-yard dash, high jump, or pole-vault need quick bursts of energy for a short time. These sports draw on energy already formed in the muscles from food sugars (carbohydrate). It is called ATP (adenosine triphosphate). Only a limited amount of ATP is stored in the muscles.

Getting ready for short-term energy sports requires a good meal with plenty of starchy and sugary foods (carbohydrates) three hours before the event. Fish or poultry, rice or potatoes, cooked vegetables, bread, milk and fruit or fruit juice are good choices. Because fats digest very slowly, deep-fat fried foods, such as tempura, French fries, pastries, or fried chicken, should not be eaten less than four hours before an event.

The athlete should avoid muscular work just before the competition to keep muscle energy high. There should be a break between events to allow the muscle to clear the waste products (lactic acid) of exercise and to restore muscle energy. Drinking about a cup or more of fruit juice is a good way to replace the carbohydrates.

Intermediate Term Energy - Athletic events that need high energy output for a relatively short time, such as gymnastics, diving, tennis, shot-put or golf will use ATP quickly and then draw on muscle sugar (glycogen). Glycogen in the muscle can be increased by eating extra servings of rice, bread, cereals and juices for 2 to 3 days before the competition.

Long-Term Energy - When hard physical exercise is needed for a long time, such as in basketball, football, wrestling, long-distance running, or swimming, soccer, and water polo, glycogen needs to be filled to high capacity in the muscle through a good basic diet rich in carbohydrates. The procedure of muscle sugar (glycogen) loading, which is often used, can be easily abused and should be used only in special events. Some older athletes have experienced heart problems after glycogen loading which can reduce rather than improve athletic performance.

Muscle loading is a way of doubling sugar in the muscles. It is done by physically training and exercising for several days while reducing carbohydrates (starches and sugars) in the diet, followed by two to three days of high carbohydrate intake just before competition. Training is difficult during the low carbohydrate period, because energy must come from fat and protein. These sources of energy are less efficient and may cause the body to hold water, slowing down performance.

#### Need for Water

Heat stroke, a sudden faint caused by not enough water and hard work is a serious hazard during strenuous exercise. Withholding water from athletes has caused illness and death. When there is loss of water, even a little physical activity causes heart beat



Food for the Athlete, page 2

and body temperature to increase. Body changes that hurt performance are noticed with small losses of body water. Large water losses are extremely hazardous and lead to heat stroke. If not treated quickly, the individual will die.

There is no reason to stop water intake of athletes during contests nor is there any proof that people can be trained to take less water. Water loss should be replaced by continuous fluid intake. Not eating and drinking for many hours is dangerous.

Hawai'i State Department of Health Nutrition Pranch



#### MYTHS ABOUT FOOD

- 1. Added Protein the hardest myth to do away with is that athletes need added protein. Protein is not a main fuel source of energy. Added protein will not build muscle. The usual American diet provides more than enough protein for athletes.
- 2. No Fat another myth is that no fats, no fried food, and no oily dressing should be eaten. The human body needs a certain amount of fat. Fats in the diet are carriers of vitamins A, D, E, and K. (See Daily Food Intakes)
- 3. Added Vitamins and Minerals there is no sure information that the intake of vitamins above that in a good diet will improve performance. Poor use of vitamins and minerals may have harmful effects. However, a lack of iron is common in athletic women, particularly during menstruation, and supplemental iron may be helpful at this time.
- 4. Quick Energy Foods many athletes believe that sweets eaten just before events will provide extra energy. Since it takes two to three hours for sugar to reach the muscle, this is not quick.
- 5. Milk there is no reason for eliminating milk from the athlete's diet. Contrary to some opinion, milk does not "cut wind", cause "cotton mouth," or "sour stomach". It is an important source of high quality protein, calcium and phosphorus, as well as vitamin B2 (riboflavin). Milk products are among the best snack foods.
- 6. Salt Tablets diets in Hawai'i are usually high in salt, making it unnecessary to take extra salt.
- 7. Water: The human body needs water constantly to function properly. Some of the water/ is eliminated through the respiratory and digestive process. Some of it is stored in the body and used as needed, such as in times of illness or strenuous exercise. Therefore, water should be consumed while participating in strenuous physical activity lasting more than 20-30 minutes.

"Food for the Athlete" (pamphlet)
Nutrition Branch
Hawai'i State Department of Health



#### HAWAIIAN VOCABULARY FOR CLOUDS AND WEATHER

anuanu

'ino

mahana

makani

pulu

wela

ua

hu'ihu'i

#### Clouds

ao 'ele'ele

ao 'onohi

ao panopano

aoūli

ena

'ōma luma lu

'õpua

cloud

black cloud.

cloud with rainbow

colors

thick cloud

sky, blue of sky

opening in clouds

cloudy

billowy cloud

Weather

cold

chilly

stormy

warm

windy

wet

rainy

hot

## He mau ninau me na pane e pili ana i ka manawa

He aha ke 'ano o kēja lā?

He lā maika'i kēia.

He lā makani kēia.

He lā ua kēia.

He la 'ino kēia.

He lā ar anu keia.

He aha ke 'ano o kela ao i ka lewa?

He ao 'ōnohi kēlā.

He ao panopano kēlā.

He 'õpua kēlā.

He ao 'ele'ele kēlā.

#### Some questions and answers concerning the wealther

What kind of day is today?

This is a fine day.

This is a windy day.

This is a rainy day.

This is a stormy day.

This is a cold day.

What kind of cloud is that in the sky?

That is a cloud with rainbow colors.

That is a thick cloud.

That is a billowing cloud.

That is a black cloud.

# MUSICAL COMPOSITIONS ABOUT HOKULE'A

#### by Māhealani Pescaia

In ancient times chants were composed about places, events and people. They described the beauty found in the surroundings and the lives eople, especially the <u>ali'i</u> (chiefly class).

Due to our modern media, newspapers, magazines, films and other methods of recording information, composers do not need to record events in song. However, Hokule'a and its trip to and from Tahiti brought such excitement and cultural awakening that composers were moved to express their feelings in songs.

Keli'i Tau'ā, one of these composers, wrote many songs, including chants. One of his songs, "Hōkūle'a," sung by Nā Keonimana, was used as the background music for a film called "Launching of the Hōkūle'a." More of his songs about the famous canoe appear in the popular album, "The Musical Saga of the Hōkūle'a." The songs tell about the pride and love for the double-hulled canoe and for the culture it represents. They cover the period from the launching of Hōkū and in 1974, to various aspects of the 1976 Tahiti voyage and the celebration in honor of the canoe's return.

Larry Kauanoe Kimura, Hawaiian language teacher at the University of Hawai'i, and others were inspired to compose a song called "Wa'a Hōkūle'a" prior to talking with Kawika Kapahulehua, captain of Hōkūle'a. This song expresses the feelings of the Hawaiian people and their pride in the sailing of Hōkūle'a.

Dr. Ruth Tumoana Wahine Finney composed a chant. She was motivated to write this chant the night Hokule'a was launched.

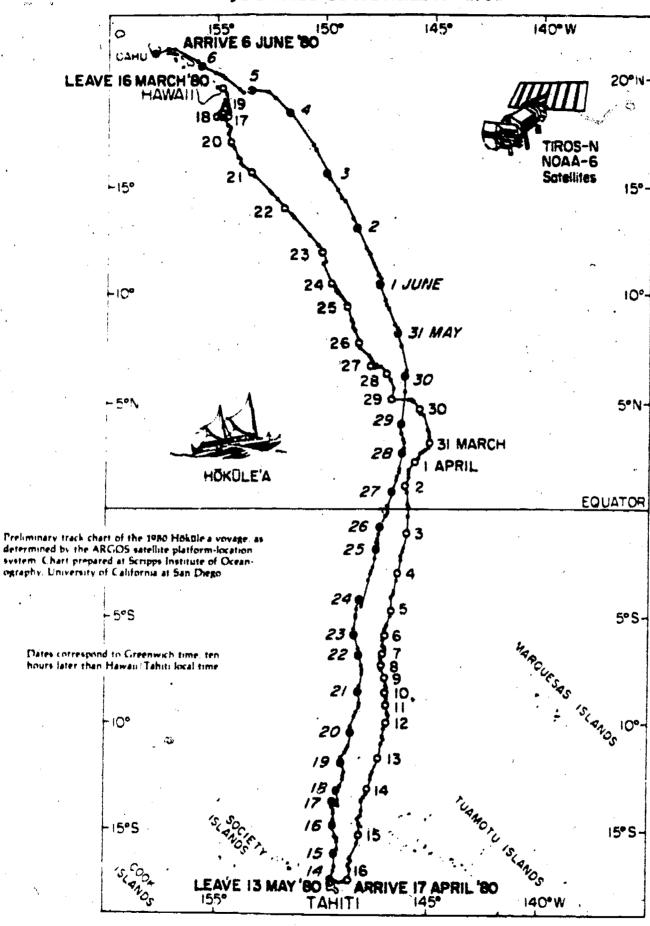
Prompted by a song contest that was conducted by a radio station in Tahiti, Tahitian composers wrote more than 200 songs about Hokule'a. The winning song was sung when Hokule'a arrived in Tahiti, along with several other songs about the historic canoe. The lyrics clearly express the love and feelings of the people of Tahiti for all that Hokule'a means. The "Hokule'a" song in Tahitian by the Hui 'Ohana also reflects this aloha.

John Kaha: Topolinski, <u>kumu hula (hula teacher)</u> and Mary Kawena Pūku'i, Hawaiian linguist and cultural expert, composed, and have recorded, a chant that tells of the landing of the canoe in Tahiti. Topolinski's dancers (<u>Ka Pā Hula Hawai'i</u>) performed the chant the day Hōkūle'a returned to O'ahu.

Hōkūle'a 'Elua crewmember Eddie Aikau wrote "The Song of Hōkūle'a" shortly before the 1978 voyage. Eddie will always be a part of Hokūle'a, and his song shows his deep feelings for the beautiful canoe and Hawai'i nei. He perished at sea while going for help on a surfboard after Hōkūle'a began to founder off Kaua'i.

Many other composers have written songs about the beautiful canoe Hokule'a. It is likely that other songs and chants will continue to be written about the historic canoe, and the men, women and animals who sailed it to Tahiri, then back to Hawai'i. Thus, the custom of recording events through chant and song continues.





Hökülr a while repeating the ancient treks of Polynesian voyages between Tahiti and Hawai i, gave oceanographers an opportunity to test systems for satellite tracking of weather buoys through a system developed by Scripps Institute of Oceanography scientists

A transmitter, used for satellite tracking of buoys as part of a global weather study experiment, was installed on Hökülr's and permitted non-intrusive satellite tracking of the cance on both legs of voyages between Hawai's and Tahiti.

Aluahle engineering information was gained even as Haksli's ERIC is being precisely tracked throughout the time Haksli's was

Dixon Stroup, University of Hawai'i Professor of Oceanography, who is chairman of the Society's Research Committee, was responsible for arranging the Hölüle's satellite tracking project in cooperation with Scripps Institute of Oceanography.

While underway Höküle'a navigator Nainoa Thompson made voice recordings logging all his decisions relating to navigation judgement on his projection of the canoe's location at any given time.

Data collected during the voyages are being compared with Thompson's recordings. Dixon Stroup is in charge of the research project.

BEST COPY AVAILABLE

IAN

CONTENT AREAS

#### **EMPHASES**

SOCIAL STUDIES

Economic Organization: the organization, distribution and use of goods and services.

Hawaiian land division - the <u>ahupua'a</u> and the utilization of the resources from the mountains to the sea

Interdependence: dependence on one another

'Ohana: The family provided ties of blood, marriage. The family members lived within close proximity to each other.

SCIENCE

Inter-relationships between the various aspects of the natural environment



#### LEARNER OBJECTIVES

#### APPENDICES

• Analyzes the relationship between the geographic features, natural resources of the islands and the way the early Hawaiians divided the land.

See: Appendices of Early Hawaiian Life, pp. 202-247.

- Describes the system of land division in early Hawai'i.
- Explains the importance of the ahupua'a to the 'ohana.
- Describes and explains the interdependence of the members of the 'ohana for satisfaction of basic needs.
- Describes and explains the role of the <u>ali'i</u> and the <u>maka'āinana</u> in the economic system.
- Compares the past and present practices of land utilization.
- Compares the economic role of the early Hawaiians and the people of Hawai'i today.
- Describes the way of life of the early Hawaiians as a result of adaptation to the environment.
- Researches and reports on natural, legendary, and/or historical events which have been commemorated with place names.
- Classifies, within a Hawaiian, scientific, or some individual taxonomy, flora and fauna found during nature study excursions in the different environmental zones on the islands from the beach areas to the uplands.
- Describes ethnobotanical uses of plants by the Hawaiians including food, medicine, dyes, shelter, tools, weapons, ornaments, religious and social rites.



CONTENT AREAS

**EMPHASES** 

LANGUAGE ARTS

Creative dramatics and inquiry into the allocation and utilization of the economic resources of early and modern Hawai'i

Correct pronunciation and labeling of land areas

HEALTH

Recreation in early Hawai'i and today



#### LEARNER OBJECTIVES

#### APPENDICES

- Describes, using the food exchange system within the <u>ahupua'a</u> as a case study, how <u>'ohana</u> and community members were dependent upon one another in Hawaiian society during former times.
- Recognizes that the Hawaiian food exchange system was based on sharing and giving and receiving, instead of trade or barter, which stemmed from motives of practicality, sympathetic interest in general welfare of the scattered 'ohana and as a matter of self-respect.
- Explains using both ancient and modern Hawai'i as a case study, how economic resources are allocated and utilized to satisfy the people's basic needs and wants.
- Discusses the food exchange system, the necessity for cooperation and working together on individual projects such as home-building, and the pulling together of the community in large numbers to provide labor for the chiefs and konohiki for large-scale projects. (kōkua, laulima, alu like, lōkahi)
- Imitates with correct pronunciation the Hawaiian words, expressions and phrases modeled by the teacher or kupuna.

- Recognizes ways in which the Hawaiians used their time to meet their needs for recreation and relaxation.
- Compares the early Hawaiian use of free time with activities in modern Hawai'i.



Con	NTENT AREAS	EMPHASES -			
Music		Songs of the islands		•	
•	•	Songs of specific places on various islands			
Λ.	y :	"Ku'u Home O Mā Pali Hāuliuli" (Kāne'ohe on O'ahu) "Kupa Landing" (Ho'okena on Hawai'i)			
		"Kilakila 'O Haleakalā" (Haleakalā Mountain on Maui) "Hilo Hanakahi" (Hilo on Hawai'i)		·.	
•			, ·		
ART		Collage: Using native materials of the environment to compose an a the flora in an <u>ahupua'a</u>	rtistic representa	ition of	•
FOOD AND N	UTRITION	Food plants of early Hawai'i - uses, methods of planting, nutrition	al values, medicir	nal value	;
GAMES AND SP	PORTS	Hawaiian games for recreation and building skills			····
	•		. •		
			• •	•	
		· ·			



LEARNER OBJECTIVES	APPENDICES
<ul> <li>Relates how aspects of the natural Hawaiian environment provided images and topics for the composers of Hawaiian poetry (mele) in former times and even today.</li> </ul>	
<ul> <li>Recognizes that selected words and expressions found in chants and songs that have been learned can be incorporated into the student's active or passive vocabulary.</li> </ul>	
<ul> <li>Creates melodies and lyrics concerning a Hawaiian theme using English and Hawaiian words, expressions, and phrases.</li> </ul>	
<ul> <li>Sings selected Hawaiian songs introduced by the teacher while playing rhythmic or harmonic instruments ('ukulele, guitar or auto harp) in time with the beat.</li> </ul>	
• Composes artistic expressions through the use of native flora.	
• Discusses how common Hawaiian foods are grown or produced and acquired.	Unit IV - A Worksheet for Plant Research, p. 97
<ul> <li>Discusses the kinds of plants that grow in the different environmental zones from the seashore to the mountains.</li> </ul>	- B <u>Nā Mea Kanu</u> : esian Introduced Economic Plan 98-105
<ul> <li>Discusses some of the beliefs and kapu connected with fishing.</li> </ul>	aconomic Figure ,
Creates new Hawaiian games using the native materials of the environment.	



## BEST COPY AVAILABLE

The following lessons were developed to accompany the lesson, found in the 4th grade social studies guide, Early Hawaiian Life, pp. 71-78,

Grade 4. Unit IV

#### SCIENCE

## LANGUAGE ARTS

#### HEALTH

- Activities to stimulate the children's interest in the inter-relationships between the various aspects of the natural environment.
- . Plan a field trip to an area that has maintained the characteristics of an ahupua'a.

E.g. O'ahu - Moanalua Valley Moloka'i - Halawa Valley

Kaua'i - Hanalei

Hawai'i - Pololü Valley, Wai'õhinu

Maui - Kahakuloa

Lāna'i - Kaunolū, Keömuku

- a. Call and make arrangements for an all day fie'd trip to the valley.
- Inquire about a preparation program wherein an instructor can come discuss the interrelationships between various aspects of the natural environment,

e.q. Geology (volcanic action, erosion. weathering, water systems) Weather (climate) Nativé biota (plants/animals) Environmental zones (ahupua'a)

and the cultural history of Hawai'i as related to the 'aina (land).

c. O'ahu: Call Moanalua Gardens Foundation, 839-5334 for arrangements and learning materials. Refer to Early Hawaiian Life, p. 79.

• The following language lessons may be used to stimulate the children into dramatizing and writing about the Hawaiians' solution to meeting their basic needs within the ahupua'a.

Give each child his/her own island map.

See: Na Ki'i Ho'ona'auao Teacher's Guide for 8½ x 11" master copies.

- 1. Have the children sketch in the various divisions of land.
- 2. Introduce each division, have them write it correctly and spell it on their maps. Using the diagram on p. 79, have them also write the ruler of each division. Emphasize the use of diacritical marks. The correct pronunciation of these words may be given by the kupuna.
- 3. Writing

Have the children imagine themselves living in a kauhale under a konohiki, (chief) of an ahupua'a. Have them describe the chief and how he rules his people. Encourage them to include his treatment of children as well as adults, his characteristics and his family.

4. Learn about the different land areas by name and description.

 Activities to help the children become more aware of the healthful physical activities of the children in an ahupua'a.

1. Discussion

Tell children: Imagine yourselves living in early Hawai'i without TV, radio, movies, books, bicycles and other modern day amusements.

- a. What would you do to entertain yourself?
- b. What do you do today at different times of the day to entertain yourself?

Write the children's responses on a chart.

Activities/Entertainment				
	Morning	Afternoon	Night	
Early Hawai'i	Help with chores Receive training	Swim Participate in skill bldg.games	Tell and listen to stories	
Modern Hawai'i	Attend school	Participate in school or- ganized games	work	

2. Plan some activities that would show other uses of the free time of the children. Have the children share some of the most exciting things they do at home. Make up a list of these activities for each student to have. Encourage them to make better use of their time by being creative rather than watching TV.

Music

ART

FOOD AND NUTRITION

GAMES AND SPORTS

Music activities to build up the children's vocabulary and repertoire of songs about the natural Hawaiian environment utilizing the <a href="ukulele">ukulele</a> and autoharp.

Teach the students songs about their island and/or the town or area in which they live. Use the 'ukulele and autoharp as accompaniment.

1. E.g. Island songs

Māhoe. <u>E Himeni Hawai'i</u> Kākou

Kamehameha Schs. <u>Ho'omā-</u>ka'ika'i/Explorations

Use the <u>Nā Ki'i Ho'ona'auao</u> charts for place names.

- "Sweet Lei Hinahina" can be taught to the children as an island song by substituting the flower and island in the last line.
  - E.g.: Sweet lei hinahina Sweet lei hinahina Sweet lei hinahina Ka moku 'o Kaho'olawe.

For the island of O'ahu
Sweet lei 'ilima
Sweet lei 'ilima
Sweet lei 'ilima
Ka moku 'o O'ahu.

etc.

 An activity in art to motivate the children to be more observant of their natural environment.

Draw a diagram of a typical ahupua'a. Define the boundaries - which should be natural features such as ridges, depressions, stream beds, homes of birds, a line which separated grass from lava, or piles of rocks.

#### Collage

Encourage the children to begin collecting a variety of plant materials from the various land areas.

E.g. From the <u>kahakai</u> area, collect coconut leaves, husk, <u>limu</u>, seashells, etc.

From the <u>kula</u> lands one can bring in <u>kalo</u> (taro, 'uala (sweet potato), and 'ulu (breadfruit)

From the <u>uka</u> lands one can bring in ferns, <u>koa</u> leaves, feathers, etc.

Compose a mural of an ahupua'a using a collage of various plants and materials from the environment.

The following activities can be used along with the simulation lesson in Early Hawaiian Life, p. 84.

- Continue the study of the plants brought by the early Hawaiians by doing a more detailed study of their value as a food and of their general uses.
  - Have each student select one plant to study thoroughly, including nutritional value, <u>kapu</u>, method of planting.
  - 2. Discuss the format of the research the general outline of information to be researched. See Appendix Unit IV-A, p. 97 for sample.
  - 3. Encourage each student to bring in samples of their plants and label the parts that were used. Have them set up a display using a variety of media.
  - 4. Bring in resource speakers who are knowledgeable in the uses of the plants.

- The following activities are designed to encourage the children to think about the variety of land formations within an <a href="mailto:ahupua'a">ahupua'a</a> and to suggest possible games and sports the children may have engaged in.
  - E.g. ki (ti) leaf sliding swimming spear throwing etc.
  - 1. Decide on a location on the school grounds and plan some early Hawaiian games.
  - Have the children think about what was available in the environment at the time and have them create games using the materials from the environment.
  - 3. Write the game instructions on 5" x 8" cards.
  - 4. Have each student teach his/ her game to the rest of the class. If possible, have the entire class participate in the games.
  - 5. Use the following references for more Hawaiian games:
    - a. Dunford. The Hawaiians of Old, pp. 153-163.



•	•	••		
		•		
		Sc	<b>IENCE</b>	

- 2. Other activities dealing with the study of the environment.
  - a. Make a drawing which shows the plants that grew or were raised in the ferent sections of the ahupua'a.

    No the plants and indicate what ay were used for.
  - O'ahu students can visit Makapu'u Beach Park. It is an excellent outdoor laboratory of a Hawaiian ecosystem with ocean, lava, sand dunes, tidal pools, offshore islands, birdlife and native coastal plants.
  - c. Research and discuss the pollution of Kāne'ohe Bay or other polluted areas known to students, and suggest ways to protect the environment.
  - d. Have older persons or grandparents share their experiences about the physical environment of Hawai'i when they were young. Have them describe the flora and fauna, their activities, the road system, transportation and educational opportunities.

#### LANGUAGE ARTS

- Ko Kahakai land by the sea, not favorable for planting
- b. <u>Ko Kula Kai</u> plains or sloping land toward the sea
- c. <u>Ko Kula Uka</u> plains or sloping land toward the upland
- d. <u>Kahawai</u> place having fresh stream water
- e. <u>Wao</u> wild, inland, forested region
- f. <u>Kuahiwi</u> mountain or mountain range

Reference: Handy. Native Planters of Old Hawai'i

5. Discussion

#### Ask:

- a. If you lived near the ocean and needed products from the mountains, how would you meet your needs?
- b. If your <u>hale</u> (houses) were built in the mountain area, how would you obtain products from the sea?
- 6. Have the children dramatize their solutions.

#### HEALTH

3. Have the children keep a two-week journal of their activities. Hold evaluation sessions with the children to keep them motivated about making better use of their free time.

			Grade 4, Unit IV
Music	ART	FOOD AND NUTRITION	GAMES AND SPORTS
3. Other songs:  "Ku'u Home O Nā Pali Hāuli- uli" (Kāne'ohe)  "Kupa Landing" (Ho'okena)	The children should be able to add on new things as the year progresses.	5. Visit an arboretum or medicinal garden on your island. Invite a <u>kahuna</u> <u>lā'au lapa'au</u> or	b. Mitchell, Donald. Hawaiian Games for Today  c. Mitchell, Donald. Resource
"Kilakila 'O Haleakalā" (Maui) "Hilo Hanakahi" (Hawai'i) All these songs are in Elbert and Māhoe. <u>Nā Mele</u> Hawai'i Nei.	<u>o</u>	ethnobotanist to your classroom to talk about plants used in early ilawai'i.	Units in Hawaiian Culture
"Ke One Kaulana O Hawai'i" describes the various districts on Hawai'i.		Resources:  Appendix Unit IV-8, pp. 98-105	
Source: <u>Hi'ipoi I Ka 'Āinā</u> <u>Aloha</u> , LP, Hula Records, Edith Kanaka'ole.		Culture Studies: Hawaiian Studies Project, Data Cards	
4. Ask community resource people for songs about your locality. Encourage their participation in teaching the songs to the children.		Department of Health. Foods Used in Hawai'i  Dunford. The Hawaiians of Old  Kamehameha Schools. Ho'omā- ka'ika'i/Explorations, 1980	
5. Have the children think about the beautiful sights in their town such as the surf, the mountains, the plants or significant fish ponds, etc. Have them write their descriptions		Krauss, Beatrice. Ethnobotany of Hawai'i  Tuttle. Hawaiian Herbs of Medicinal Value (Akaiko Akana)	
in poetry form. Have them make up melodies for their poems and tape these. They may be set to notation by you or the music resource person in your district.			210

#### 7. Writing

Have the children write a paragraph about how the Hawaiians solved these problems since travel was by foot and the journey long and arduous.

References:

Handy. Native Planters of Old Hawai'i

Hazama. The Ancient Hawaiians

7. Examine how economic resources are allocated and utilized to satisfy the people's basic needs and wants.

Establish the basic needs of people. Ask the children:

- a. "What are the basic needs that must be met in order for people to survive?"
- b. "How are these needs being met today?" Discuss.
- c. Predict: How were these same needs met in early Hawai'i?
- d. Creative dramatics
  - 1) Divide the class into two 'ohana. Having established the basic needs, have one group dramatize how the needs are being met today, and the other group: how the needs were met in early Hawai'i.

2) Discussion: Encourage the children to ask questions about the dramatization and to think about those <u>ors</u> that enable people to satisfy their basic needs.

- E.g. Early Hawai'i. Some of the factors that enabled an 'ohana to build more houses than another 'ohana were:
  - a) More available land
  - b) More hands to help
  - c) Availability of materials
  - d) More people living in the kauhale

Modern Hawai'i

- a) Investments
- b) Many families own or rent and live in single family homes
- c) Availability of money etc.
- 3) Follow up with research and reporting. Talk about the integral role of the 'ohana concepts in this economic process.

References:

Curtis. Life in Old Hawai'i

Dunford. The Hawaiians of Old, pp. 32, 53, 83, 105

Hazama. The Ancient Hawaiians

• For additional language activities, see Early Hawaiian Life, p. 86.

### Worksheet for Plant Research

Common Name:			
Hawaiian Name:	· · · · · · · · · · · · · · · · · · ·		
Scientific Name:			•
Origin:	<u> </u>		
Where does it grow today?	,	,	
			e de la companya de
How was it cultivated?			
	•		
	- Alexander		
Uses:			v:
Food:		·	
Medicine:	·		
Religion:		<u> </u>	
Others:			
			•
Nutritional Value:		•	`.
Varieties:			



213

## NĀ MEA KANU

## POLYNESIAN INTRODUCED ECONOMIC PLANTS



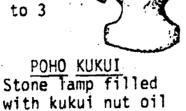
DYE OR STAIN . Green husk of fruit pounded with water for pale gray dye. Soot from burned nuts for black dye for tatooing, for painting Hulls of canoes, for kapa. Inner bark pounded with water makes stain for fish nets and reddishbrown dye for kapa. Dressing of oil from kernels applied as finishing process on surfboards.

#### MEDICINE

Sap from green fruit rubbed in child's mouth for thrush ('ea). Sap put on skin wounds hastenshealing. Mixture of flowers and sweet potatoes eaten for 'ea. Leaves used as poultice for swellings and infections.



IHOIHO KUKUI Candle formed by stringing roasted or dried kernels on short coconut midrib or splinter of bamboo and placed in sand in stone bowl. Each kernel burned 2 to 3 minutes.



using twisted strip

of tapa as wick.





Hard shells of nuts polished and strung into lei.

LEI

Roasted kernels chewed by fishermen and then spat over the water to make it smooth and clear. Wooden floats for fish nets made of kukui wood if hau wood was not available.

FOOD

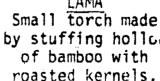


Kernels of nuts were important because of quality & quantity of oil.



LAMA KU Large torch made of kernels strung on several midribs which were wrapped in dried ti leaves and placed at tips of bamboo handles.

LAMA Small torch made by stuffing hollow of bamboo with roasted kernels.



BEST COPY AVAILABLE



#### MEDICINE

Raw leaf stem rubbed on insect bites to relieve pain and preent swelling. Raw rootatick rubbed on wound to stop bleeding. Undiluted poi used as poultice on infected sores.

PASTE
Poi was used as paste to glue pieces of tapa together.

FISHING
Grated raw corm
used as a bait
for fish: 'opelu.

## Kalo



FOOD Corm cooked in imu. peeled, and eaten. Poi most important starchy food--made from corm cooked, peeled, and pounded into a thick paste called pa'i 'ai. When water is added, the thinner paste is poi. Cooked corm sliced and dried for long trips. Knlolo--a pudding made by cooking grated raw corm with grated coconut meat and milk. Young leaves called lu'au-cooked with pork in imu (laulau). Leaf stems peeled, cooked for greens. Corm also used to fatten pigs.

DYE

Juice from poni variety yielded rich red dye used for dyeing kapa. Also 7 other varieties used for dyes.

"HUKI I KE KALO"

Huki i ke kalo (Pull the taro) Huki, huki mai.

Ku'i i ke kalo (Pound the taro) Ku'i. ku'i mai.

'Ai i ke kalo (Eat the taro) Ma'ona mai Mm - mm - mm 275 to 300 varieties known to early Hawaiians.



ERIC

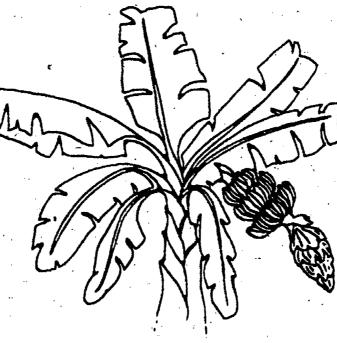
218

Eaten raw or cooked, depending on variety. When taro was scarce. a poi was made from mashed bananas.

LEAVES Leaves used to cover food that was placed in imu. Also used to make temporary sandals.

TRUNK Used as roller to move canoes. Crushed and placed in imu to create steam. Used as target for spear practice.

Mai'a



More than 70 varieties known to the early Hawaijans.

MEDICINE Honey secretion from tip of flower fed to babies for vitamins. Juice from roots of certain varieties used for thrush ('ea).

> DYE Dye made from juice of buds.

RELIGION : Leaves sometimes used to cover small shrines called unu. Fruit were offerings to gods. Bodies of kings wrapped in leaves.

MEDICINE

Asthma cure. Laxative.

To induce vomiting

As gargle to clear throat of phlegm.

medicinal mixtures.

Used in various

F00D

Tubers baked in imu and eaten. Also baked, peeled, mashed, and mixed with water to make poi. Grated tubers mixed with coconut milk. wrapped in ti leaves and baked for dessert. Young leaves cooked as greens. Tubers used to make a fermented drink.

230 varieties in old Hawai'i. God of sweet potato was Kamapua'a.

Uala



FLOORING Old vines and leaves used as padding under floor mats.

HOG FOOD Vines and leaves. Inferior tubers and peelings for final fattening.

lül

## Hau

**BRANCHES** 

Slightly curved branches used for outrigger booms. Also used for outrigger float if the lighter willwill wood was not available.

Smaller branches used for

- . adze handles
- . massage sticks
- , fire plows
- . lightweight spears for battle practice
- . fish net floats
- . kite framework

MEDICINE
Slimy sap under the bark and the base of the flower is a mild laxative. Also given to women in labor to help delivery of baby.

INNER BARK
Twisted or braided into cordage for

- . support for waterholding gourd to fasten covers of lau hala baskets for snapping line design on kapa
  - . to sew kapa bed sheets together
  - . for making nets when olonā was scarce
  - . sandals
  - . ropes
  - . string for bow
  - . slings

Hala

MALE FLOWER
Leaves (bracts) used
for finest garments.
Pollen used as love
charm and talcum.

MEDICINE Tips of aerial roots eaten raw or cooked for medicine.

PRUIT
Near-ripe fruit cut and used to make leis. Older fruit used for brushes. Eaten in time of famine.



LAU HALA (LEAVES)
Plaited for mats,
canoe sails,
baskets, fans,
pillows, kites,
sandals.
Thatching for roof
and sides of
house.

TRUNK
Trunks of male
trees are hard
through to the
core--used for
posts and 'ukeke.

220

ERIC

Fiber from inner bark was twisted into

- a strong cordage for:
  - . fish nets and lines
  - . nets for carrying containers (kōkō)
  - . net base for ti-leaf rain capes, feather capes, cloaks, and helmets
  - tying adz heads to hau handles
  - . repairing cracks in gourd and calabash
    - containers





## Wauke

KAPA (TAPA)
Inner bark made the softest, finest, and most durable kapa known.
Kapa made from wauke was washable.

## 'Ōlena

Turmeric. Member of ginger family with spicy yellow roots. Leaf stalks come up in spring; plant dies down in fall.

DYE

Juice from raw root makes yellow dye, a favorite.
Juice from cooked root makes deep orange dye. 'Ölenalena means "yellow" or "dye made from 'ölena plant."

MEDICINE

Juice from crushed root dropped into ear to relieve earache; into nostrils for sinuses.



,

Grade 4, Appendix Unit IV-E

Used to fatten pigs.

Drums (pahu). Surfboards because of lightness of wood. Poi boards. Woodwork in houses. Canoe bows and stem pieces.

SHEATH OF MALE FLOWER Used as sandpaper in final smoothing of utensils, polishing bowls, and kukui nuts.

DYE Young male flower makes a tan dye. Old one makes a brown dye.

MEDICINE Latex used for certain skin diseases. Leaf buds used for cure of thrush ('ea).

LATEX When milky sap solidifies, used as chewing gum. Glue for joining two gourds to make drum. Caulking to fill seams of canoe. Used to catch birds so feathers could be removed.

Kō

'Ulu

FOOD. Stalk chewed between meals as a sweet food: Stalks carried on long journeys and chewed for quick energy. Juice fed to babies. Juice used to sweeten puddings like haupi and kūlolo.

Early Hawaiians had 40

different varieties.

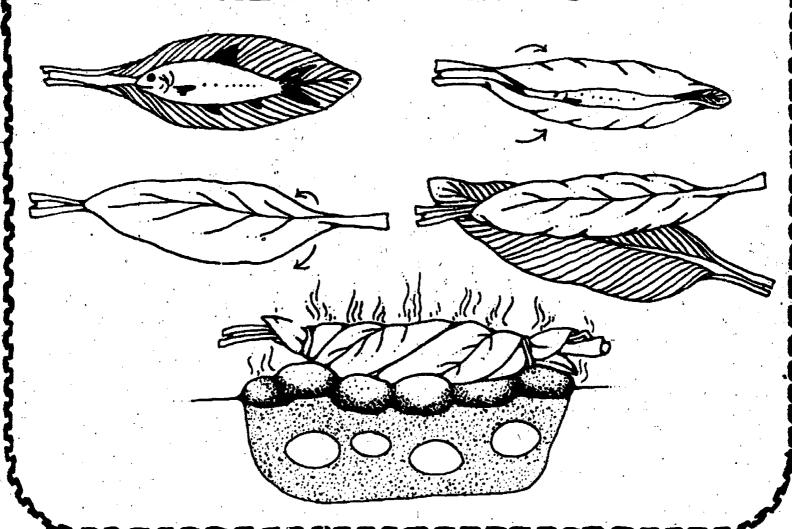
**LEAVES** 

Often used as covering for inside walls. Used to thatch shelters if pili grass was scarce.

MEDICINE Used to sweeten medicine or chewed

after taking medicine. Ingredient of some medicinal mixtures.

## HE HANA LĀWALU



## Pia

Starch obtained from tuber was the only part used.

#### MEDICINE

Raw (in water) for diarrhea.
Mixed (with red-colored, highiron-content clay - 'alaea
for dysentery.

#### FOOD

Mixed with coconut milk, wrapped in tileaves, and steamed in imu to make a pudding called haupia. Recipe brought by Tahitians.



CONTENT AREA3	EMPHASES .	y
./ SOCIAL STUDIES	'Ohana: The extended family system of early Hawai'i was important in the its members	the socialization of
	Hawaiian family concepts included:  Aloha - love Lokahi - harmony Laulima - cooperation Kuleana - responsibility Kokua - help 'Ike - recognition' Ho'oponopono - setting things right	
SCIENCE	Kaiaulu (society): A group of people living and working together	1
	Study of the honey bee and ant as "society" insects	
LANGUAGE ARTS	Reading legends dealing with <u>'ohana</u> activities and roles  Discussing genealogies of early Hawaiians and modern day people  Planning movie rolls of family roles	
	Creative writing on "Life as an Apprentice Under a <u>Kahuna</u> "	*

	· —		
LEARNER			-
I LADRILD		ILPTI	NEE
LEMNIER	UD		Y ( . 7)

#### APPENDICES

- Compares early Hawaiian family life to the student's family life.
- Describes the differences between the generalized education for living and specialized training that children in early Hawai'i received and the kinds of education a child in modern Hawai'i receives.
- Describes the functions of a family of early Hawai'i and compares them to the functions of today's family.
- Explains the importance of roles in the early Hawaiian kauhale (compound).
- Explains the role of the 'aumākua (family guardian spirits) in the lives of the people.
- Practices the early Hawaiian concepts of <u>aloha</u>, <u>alu like</u>, <u>kuleana</u>, <u>kokua</u>, <u>'ike</u>, laulima and lokahi.
- Identifies groups of people and groups of animals that live together as sociables and explains the importance of the Hawaiian 'ohana concepts even in other "societies."
- Identifies some flora and fauna of Hawai'i with the common name as well as the Hawaiian name.
- Reads Hawaiian legends and identifies <a href="https://example.concepts.org/">'ohana</a> concepts and cultural roles of people.
- Analyzes early Hawaiian genealogies and identifies the importance of correct memorization in order for them to pass from generation to generation without errors.
- Writes creative legends based on knowledge of early Hawaiian life.

See Appendices I-V of Early Hawaiian Life

I 'Ohana, pp. 202-203

II Story of Haloa, p. 204

III Children of the 'Ohana, pp. 205-206

IV Concepts of Self and 'Ohana, pp. 208-224

V Ho'oponopono, pp. 225-227

Unit Va - E The Hawaiian Chant. p. 120



Grade 4, Unit V		
CONTENT APEAS	EMPHASES	
HEALTH/FOOD AND NUTRITION	'Ohana concepts (in-depth) and how they help build stronger inter-relationships	₽
Music	Songs by modern day composers dealing with 'ohana concepts  "Aloha" by Irmgard Aluli "Alu Like" by Haunani Apoliona	
	Composing original melodies	•
	Accompaniment instruments: <u>'ukulele</u> , autoharps, and guitars	
ART	Painting with tempera using wet-on-wet method to express feelings about 'ohana	
	Movie roll/crayons - illustrations for creative stories	
GAMES AND SPORTS	'Ohana recreation Papa Kua'ōlelo - "Word lists".	
	' <u>Olelo Nāne</u> -"Riddles"	
	' <u>Ölelo No'eau</u> -"Wise Sayings"	
228		

	diade 4, onit v	
LEARNER OBJECTIVES	Appendices	
<ul> <li>Practices behavior that illustrates respect for self, fellow schoolmates, teachers and community resource people.</li> </ul>	See Appendix IV <u>Early Hawajian Life</u> , pp. 208-224.	)
• Listens to and accepts opinions of others in group discussions.		
Sings selected Hawaiian songs introduced by the teacher while playing rhythm or		
harmonic instruments ( <u>'ukulele</u> , guitar or autoharp) in time with the beat.  • Creates melodies and lyrics concerning a Hawaiian theme using English and Hawaiian words, expressions, and phrases.	Unit V <sup>a</sup> ~ A "Aloha", p. 116	
	- B "Alu Like", p. 117	
Identifies and relates colors to special feelings based on background experiences.		
• Identifies colors in Hawaiian.		• .
Teaches younger children the rules for simple Hawaiian games and activities.		
Participates competitively in Hawaiian games and sports.	Unit V <sup>a</sup> - C <u>Na 'Ölelu Näne</u> , p. 118	
<ul> <li>Relates the use of Hawaiian games, sports, and quieter pastimes in former times to improving coordination and agility, physical strength, logical thinking and memory.</li> </ul>	- D <u>Nā 'Ōlelo No'eau</u> , p. 119	



The following lessons were developed to accompany the social studies 4th grade guide, Early Hawaiian Life, pp. 97-103, "Society and Government"

#### SCIENCE

- Activities to help the children understand the interacting forces in the bio-physical environment; the identity of the ant (or bee) as an individual and as a member of a society.
  - 1. Ask: What is a society? Allow the children to predict.
  - 2. Define kaiāulu (society) as a group of people living and working together, helping each other meet the needs of the group. A kaiāulu is a society, a community, a neighborhood.

#### 3. Ask: .

- a. Can you name some animals that live in large groups? (Ants, bees)
- b. What do we know about these animals? Encourage the children to share their thoughts and experiences about these animals.
- c. What do we want to find out about these animals? Write the children's questions on a chart.
  - E.g. Were there ants in early Hawai'i?

    What is a worker ant?

    Is there a queen ant?

    What do they eat?

    How do they reproduce?

    How much weight can an ant carry? etc.

#### LANGUAGE ARTS

- Language activities dealing with the 'ohana' (family) concept of early Hawai'i.
  - 1. Ask
    - a. What elements is the word 'ohana based on? ('ōhā relates to the offshoots of the kalo; -na is a suffix making a word into a noun)
    - b. Who were Wakea and Papa?
       (the legendary ancestors of the Hawaiian and other Polynesian peoples; sky father/earth mother concept)

See: Early Hawaiian Life, pp. 202-204.

2. Read excerpts from the following sources\_that give further information about Wakea and other ancestors of the early Hawaiians.

Beckwith. Hawaiian Mythology, pp. 293-306. Malo. Hawaiian Antiquities, pp. 238-244.

3. Discuss the importance of the family genealogies and the way the family histories were preserved in chants.

See: Appendices Unit V<sup>a</sup>-E, p. 120 and V<sup>D</sup>-F, pp. 145-150.

- 4. Plan a movie roll activity with the children.
  - a. Have them write about each family member's role in their families based on the interview they conducted in social studies in Early Hawaiian Life, p. 102.

#### HEALTH/FOOD AND NUTRITION

 Activities to help the children build stronger and more positive interrelationships by studying the 'ohana concepts.

Have the children complete the lessons in Early Hawaiian Life, pp. 99-100, social studies. Take time to provide the children with an in-depth lesson on the 'ohana concepts. Use Na Ki'i Ho'ona'auao (17" x 22" illustrations) as you discuss each concept with them. See the narrations that accompanies the illustrations.

#### 1. Talk about Aloha

- a. Have the children share their poems written in social studies on "What Aloha Means."
- h. Using the chart with the meanings of aloha contributed by the children in Early Hawaiian Life, p. 100, add any new meanings contributed in their poems. These poems can be set to chant in music class.
- c. Talk about how to show aloha in the home, in school, in the neighborhood.

#### Ask:

233

- 1) How does it make you feel to give aloha to others?
- 2) How does it feel to receive aloha?

#### Music

- Songs dealing with the 'ohana concepts written by modern day composers such as : Irmgard Aluli, Haunani Apoliona.
  - Teach a song about aloha, "Aloha" by Irmgard Aluli and Edna Pualani Bekeart.

See: Appendix Unit Va-A, p. 116. Recorded on <u>Hawai</u>ian Time, LP.

- a. Refer to health lesson on aloha. Have the children recall the poems they wrote in social studies about aloha.
- for them. Have them look at the notation.
- c. Teach the song using the song sheets. Point out similar phrases.
- d. Encourage the children to sing with feeling.
- e. Motivate them to compose a melody for their poems of aloha.
- f. Have the music resource teacher help you record their melodies in music notation.

#### ART

- Activities illustrating feelings about the self and the ohana.
  - Painting
     Tempera paint, wet-on-wet method

     9"x12" paper

Paint brushes

Visual Arts Act No. 1, pp. 291-292, Stanford Kettering Project

- a. Have the children think about the effect different colors have on them.
- b. Ask:

what does 'ula'ula (red) do to you? Does it relax you or make you tense/excited? How does 'ula'ula make you feel?

c. Do the same for a variety of other colors using the Hawaiian term for each color.

See: Basic Hawaiian Vocabulary lists pp. 290 and 299 of this guide.

#### GAMES AND RECREATION

 Ohana (family) evening recreational activities

Many long hours were spent in the Hawaiian home at night exchanging 'olelo nane (riddles), reviewing 'olelo no'eau (proverbial sayings), or engaging in contests of words like reciting lists of objects to which another person must give its opposite or parallel meaning.

- 1. Introduce these traditional activities to the children.
- 2. Encourage them to engage in them so eventually they can engage in.contests just as the Hawaiians did.
- 3. Review the members of a family. See <u>Early</u> Hawaiian Life, pp. 98-99.
  - a. Have the children engage in a contest using the members of a family as the list of words.
  - Say the English words and have the children give the Hawaiian equivalent. They

#### SCIENCE

- 4. Have the children gather informational staterials from the library.
- 5. Call your science resource teacher for an ant colony or bee hive to keep in the class so the children can observe in order to answer their questions.
- 6. After the children have had some time to research and observe. ask them:
  - a. What Hawaiian 'ohana concepts have you observed in the ant community? bee hive?

    (kokua, laulima, alu like, lokahi, aloha, kuleana)
  - b. What could happen to the ant or bee 'ohana or kaiaulu if the worker ants
    decided not to laulima (cooperate)?
  - c. What would happen to the societies of the queen decided not to carry out her kuleana (responsibility)?
- 7. Have the children study
  - a. The various stages of each insect
  - b. The various kuleana of the workers
  - c. The kuleana of the queen
- 8. Scrapbook

Have the children make a scrapbook of flora and fauna around them. Have them draw a picture or press the leaves and flowers, and write the name of each in English as well as Hawaiian.

#### LANGUAGE ARTS

rekte blikkingt bli ter 🕶 blike blike blike blike blike blike bet blike gran blike en kelemarkings en krigering.

a Marking and the comparation of the property of the contraction of th

- b. Have them decide how many panels they need.
- c. Have them proof-read their descriptions, then write them on each panel.
- d. The illustrations for each panel can be done in art class.

See: art lesson, pp. 111 and 113.

5. Read stories or legends about the role of children in the early Hawaiian <a href="https://doi.org/10.2016/johana">https://doi.org/10.2016/johana</a>.

See: Appendix III, Early Hawaiian Life, p. 205.

Curtis. Life in Old Hawai'i, pp. 143-152. Story about three young men who want to train to become canoe builders. "Pupils of Linohau"

Same source as above - pp. 131-134. "Bird-Catching" Story about the feather gathering techniques used by the early Hawaiians.

6. Motivate creative writing

Have the children imagine themselves living in early Hawai'i. Encourage them to choose a career they would be interested in training for.

- E.g. kahuna kalai wa'a-canoe builder
  - kanaka lawai'a-fisher
  - kapaka kukulu hale-housebuilder

#### HEALTH/FOOD AND NUTRITION

- 3) How do we show our aloha
  - when someone leaves?
  - when someone is 'omaima'i (sick)?
  - when someone is huhu (angry)?
  - when someone is kaumaha (unhappy)?
- d. Make up simulated situations and have the children dramatize how they would show their aloha in those situations.
- e. Show them the 17" x 22" illustration of ALOHA. Talk about how the early Hawaiians shared their aloha in their 'ohana.
- 2. As each new 'ohana concept is taught, conduct similar activities that are meaningful to the children. Mount the illustrations as they are introduced. Review daily and remind the children of them as the opportunity arises. Encourage the children to learn the Hawaiian concepts in Hawaiian and to use them in their daily encounters.
- 3. Identify some of the values ('ohana concepts) and discuss how they relate to family interrelationships, how they strengthen home ties, how they influence family mental and physical health.

#### Husic

#### ART

#### GAMES AND RECREATION

- g. Encourage the children to teach their simple songs to each other.
- h. Compile the songs into a music publication.Produce a tape and send

copies of the book and tapes to other school classes.

2. Teach a song about <u>alu like</u> (working together), "Alu Like" by Haunani Apoliona.

See: Appendix Unit V<sup>a</sup>-B, p. 117.

- a. Discuss the meaning of the song. Talk about how Hawaiians used alu like to accomplish their work.
- b. Pull out the words that are good characteristics to have:

ha'aha'a (humility) pono (righteousness) 'oia'i'o (sincerity)

- c. Play or sing the song for the children.
- d. Teach the <u>hui</u> (chorus), then the <u>pauku</u> (verse).

- d. Have the children do the art activity. Encourage them to experiment with colors and to be creative.
- e. Follow-up
  - Have the children look at the paintings and express their feelings about the art work.
  - 2) Have them select one word that best describes their feeling about their picture. Have them print it on the bottom of the painting.
  - Have them decide on a face to draw on their painting that best describes this feeling.

#### 2. Movie roll

a. Using the creative story written in language arts about apprenticeship motivate the children to plan a movie roll illustrating their stories.

can be divided into two 'ohana to compete against each other.

4. Riddles and proverbs Sources:

Appendix Unit V<sup>a</sup>-C, p. 118

Appendix Unit V<sup>a</sup>-D, p. 119

Judd, H. <u>Hawaiian</u> Proverbs and Riddles

Winne, Jane Lathrop.
'Olelo No'eau A Ka
Hawai'i (available in
most elementary school
libraries)

- a. Write the 'olelo no'eau on chart cards and mount them on the bulletin board. Introduce each proverb, one per week or encourage the children to choose one to memorize per week until they have memorized all ten.
- b. Daily recitation of these 'olelo no'eau will result in good retention.

SCIENCE

#### LANGUAGE ARTS

- <u>kāhuna lapa'au</u>-healing doctors etc.

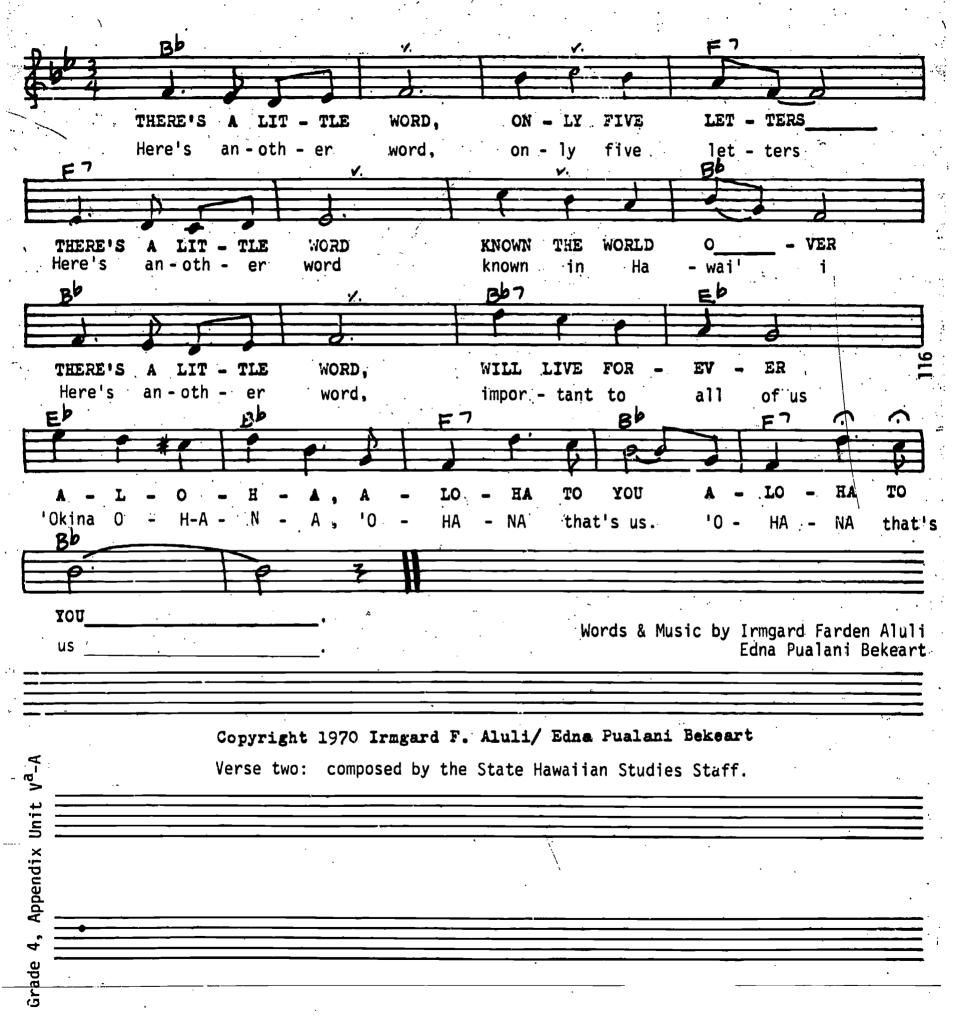
Have them write an account of their life under the apprenticeship of a kahuna (expert). Have them describe the setting, the people who live in the kauhale, daily routines, religious ceremonies, method of learning.

#### HEALTH/FOOD AND NUTRITION

- 4. Divide the class into mini-'ohana.
  Assign each mini-'ohana a crisis
  event that could happen in a family.
  (E.g., death, fire, flood, illness,
  etc.) Discuss how it could have
  been prevented or minimized, how
  the family might react, and what
  other responses might be appropriate.
- 5. Send a letter home to the parents explaining 'ohana and what the children are doing. The children and parents could have a discussion and the child could give an oral report in class.

Music	ART	GAMES AND RECREATION		
e. Use 'ukulele, autoharps, guitars for accompani-ment.	<ul> <li>b. Have them plan their panels by deciding on the most important scenes to illustrate.</li> <li>c. Give them blank news-</li> </ul>	c. When they have memo- rized all ten, contests can be held. d. Do the same for 'olelo name (riddles).		
	print and have them use crayons to illustrate the events in the story.			
	d. Encourage them to fill up the spaces and to draw images in perspective.			
	e. When the art work is finished, tape the panels together in proper sequence.			
	t. Children may share their movie rule and story with another class.			
			,	

## ALOHA



#### ALU LIKE

By S. Haunani Apoliona (Copyright: February, 1979)

HUI E alu like mai kākou L nā 'ōiwi o Hawai'i Nā pua mae 'ole Nā pua nani e E alu like mai kākou E nā 'ōiwi o Hawai'i Nā pua mae 'ole Nā pua mae 'ole

1. E hana me ka 'oia'i'o
E hana me ka ha'aha'a
E 'ōlelo pono kākou
E hana me ka 'oia'i'o
E hana me ka ha'aha'a
E 'ōlelo pono kākou
E 'ōlelo pono kākou

HUI E alu like mai kākou E nā 'ōiwi o Hawai'i Nā pua mae 'ole Nā pua nani e E alu like mai kākou E nā 'ōiwi o Hawai'i Nā pua mae 'ole Nā pua mae 'ole

2. E nānā aku i ke kumu E ho'olohe mai E pa'a ka waha E hana me ka lima E nānā aku i ke kumu E ho'olohe mai E pa'a ka waha E hana me ka lima E hana me ka lima E hana me ka lima

HUI

Let us work together
Natives of Hawai'i
The descendants (flowers) that never fade
The beautiful, handsome descendants
Let us work together
Natives of Hawai'i
The descendants (flowers) that never fade
The descendants (flowers) that never fade

Let us work with humility
Let us speak at all times with goodness/righteousness
Let us work with sincerity
Let us work with humbleness
Let us speak at all times with goodness/righteousness
Let us speak at all times with goodness/righteousness

Let us work together
Natives of Hawai'i
The descendants (flowers) that never fade
The beautiful, handsome descendants
Let us work together
Natives of Hawai'i
The descendants (flowers) that never fade
The descendants (flowers) that never fade

Let us look to the source (of our strength)
Let us listen (to that source)
Let us work not so much with the mouth
Let us work more with the hands
Let us look to the source (of our strength)
Let us listen (to that source)
Let us work not so much with our mouth
Let us work more with the hands
Let us work not so much with the mouth
Let us work more with the hands

#### NĀ ŌLELO NĀNE The Riddles

	·, ·	1		
1. 'Ula o	luna Red ab	ove	He lā'au hele i ke kaua.	A tree that goes to war.
'Ula o	lalo Red be	low	He aha ia? <u>Koa</u>	What is it? Warrior.
Kani mai	ke oli It mak	es a sound		
Kani mai	ke oli It mak	ses a sound	He lei poina 'ole.	An unforgettable lei.
He aha i <u>Moa kāne</u>	•		He aha ia? <u>Lei/Keiki</u>	What is it? <u>Child</u>
2. He 'ai k	o luna Food a	bove	He pūnāwai kau i ka lewa.	A spring suspended in the sky.
He 'ai k	o lalo Food b	elow	He aha ia? <u>Niu</u> .	What is it? Coconut.
He aha i Kalo	a? What i <u>Taro</u>	s it?	He i'a lele me he manu.	A fish that flys like a bird.
3. 'Ekolu p	ā a loa'a ka wai.	Three walls and you reach water.	He aha ia? <u>Mālolo</u>	What is it? Flying fish.
He aha i	a?	What is it?		
Niu!		Coconut	Ku'u wahi manu kia'i waena.	My little bird that watches
4. Hānau ma	i ua po'ohina	When it is born, it has gray	He aha fa? 'Ō'ō	the cultivated field. What is it? Digging stick
He aha i	a?	hairs. What is it?		(also name of a bird)
Kō		Sugar Cane.	Kakahiaka 'eha wawae, awakea	In the morning four legs, at
5. He ipu a	he po'i,	A container and a lid,	'elua wāwae, ahiahi 'ekolu wāwae.	noon two legs, at evening three legs.
He ipu a	He ipu a he po'i. A container and a lid. He aha ia? What is it?		He aha ia? <u>He kanaka</u>	What is it? A person (In youth, crawling; in maturit walking; in old age, with a cane)
He aha i				
¹Ohe		Bamboo		Caney

## NĀ 'ŌLELO NO'EAU The Wise Sayings

- 1. UA MAU KE EA O KA 'ĀINA I KA PONO.
- 2. E MĀLAMA 'IA NĀ PONO O KA 'ĀINA E NĀ 'ŌPIO.
- 3. KŪLIA I KA LÕKAHI I KE OLA.
- 4. E ALOHA KEKAHI I KEKAHI.
- 5. E HANA KAULIKE.
- 6. E MAKA'ALA KĀKOU.
- 7. E HO'OIKAIKA I KA MANA'O ME KE KINO.
- 8. KŪLIA E LOA'A KA NA'AUAO.
- 9. MAI MAKA'U I KA HANA.
- 10. MAKA'U I KA MOLOĀ.
- 11. 'O KA 'OIA'I'O, HE 'ONIPA'A NO IA.
- 12. PALA KA HALA, MOMONA KA HĀ'UKE'UKE.
- 13. MAI HA'ALELE I KE A'O.
- 14. IMUA E NÃ PÕKI'I, A INU I KA WAI 'AWA'AWA, 'A'OHE HOPE E HO'I MAI AI
- 15. 'A'OLE I PAU KU'U LOA.
- 16. LI'ILI'I KA 'ÕHIKI, LOLOA KA LUA.

The life of the land is perpetuated by righteousness. (Motto of the monarchy and the State of Hawai'i. Spoken by Kamehameha III in 1843 at Kawaiaha'o Church.)

The traditions of the land are perpetuated by its youth.

Strive for harmony in life.

Love one another.

Play fair.

Let's be alert.

Strengthen mind and body.

Strive to obtain wisdom.

Do not fear work.

Fear laziness.

Truth is steadfast.

The hala is ripe, the sea-urchins are fertile.

Do not refuse to be taught.

Forward brethren, and drink the bitter waters, there is no means of coming back. (Kamehameha I's challenging words to his warriors before the battle of Iao.)

My height is not reached. (I can go further.)

The sand crab is small, but digs a deep hole. (Size does not limit accomplishments.)

Ho'omāka'ika'i '81, Reprinted with permission of The Kamehameha Schools/Bernice P. Bishop Estate.



#### The Hawaiian Chant

By: Mikihala Hall St. Laurent

Hawaiians told many stories about the people and the events that surrounded them. Since they lacked a writing system, the people themselves committed these stories or poems to memory and retold them in the form of chants. Chants are stories or poems set to music through the use of a few melodic notes, usually no more than three. There are basically two types of chants: those that were recited (oli) and those that were accompanied by a dance (mele hula).

Chants "may be classified according to subject matter, language and structure and the method of recitation."

There were chants about: natural phenomena, genealogies (mele ko'ihonua), peoples' names (mele inoa), love (mele ipo), war (mele kaua), sadness (mele kanikau), and prayers (mele pule), just to mention a few.

Chants were composed by individuals or by groups. The term given to a poet was haku mele since he/she was an arranger (haku) of words. Chants that entertained were basically short and humorous and usually composed by an individual poet. Chants of a prophetic or genealogical nature were longer and usually composed by a group of poets. Though the lines of a chant were of no specific length, one of the principal points that had to be taken into consideration by the poets was the "expression of a thought in a terse and carefully adjusted sentence," since the words selected could often have a figurative or deeply hidden meaning termed kaona. Therefore, each phrase was carefully scrutinized before it was committed to memory.

The manner in which a chant was recited was solely dependent upon the chanter. "Styles of chanting classified as <u>oli</u> differ from each other with respect to rhythmic pattern, length of phrases, clarity of enunciation and use of the trill or 'i'i." A detailed explanation is presented in Dorothy Kahananui's <u>Music of Ancient Hawai'i</u>.

In short, chants were stories and poems that were committed to memory, set to music and passed on from generation to generation.



25

<sup>&</sup>lt;sup>1</sup>Kahananui, Dorothy.. <u>Music of Ancient Hawai'i</u>, Honolulu, 1962. p. 7.

<sup>&</sup>lt;sup>2</sup>Plews, Edith Rice. <u>Ancient Hawaiian Civilization</u>, Tuttle Co., Japan, 1974. p. 180.

<sup>3</sup>Kahananui, Dorothy. Music of Ancient Hawai'i, Honolulu, 1962. p. 9.



# KUKAKUKA



The following lessons were developed to accompany the lessons found in the 4th grade social studies guide, Early Hawaiian Life, pp. 104-115, Grade 4, Unit V<sup>b</sup>

CONTENT AREAS	EMPHASES
SOCIAL STUDIES	Kapu system: The law system of early Hawai'i and its effect on Hawaiian society
	Power: Rule, authority, power of the Hawaiian monarchy versus that of modern Hawai'i
	Class system of early Hawai'i consisted of three main classes:
	Ali'i (Chiefs) Kāhuna (Priests, experts-drawn from both of these classes)  Maka'āinana (Commoners) Kāhuna (Priests, experts-drawn from both of these classes)  Kauā (Outcasts)
SCIENCE	Environment determined the location of <u>pu'uhonua</u> (places of refuge)
	Map Reading
L'ANGUAGE ARTS	Research skills Integrating library skills into the production of a research paper on an <u>ali'i</u>
	Communication (written) with governmental officials
	Reading and discussing stories, legends, and historical data about  Kapu (system of laws and rules regulating daily life)  Ali'i
	Studying and reading genealogical charts for information about <u>ali'i</u>
•.	

#### APPENDICES

- Investigates in detail various aspects of the way of life in early (pre-contact) Hawai'i including family organization, the classes of society, the kapu system, means of producing and distributing food, the interrelation of spirituality and cognitive knowledge embodied in the kahuna class, and the economic and political elements of society.
- Contrasts the chiefly and monarchal forms of government of previous times with the democratic type of government presently found in Hawai'i.
- Identifies geographic features from a map of Hawai'i and explains how these have affected the way of life.
- Describes some of the natural phenomena in Hawai'i using their Hawaiian names.
- Describes some of the physical landmarks and attributes of Hawai'i, natural and human-made, using their Hawaiian names. (cliff, mountain, fish pond, river)
- Writes prose or poetry in English, using Hawaiian words and expressions where appropriate, expressing the student's feelings about Hawai'i, Hawaiian food, music, dance, people and history.
- Discusses some influences of the historical events which have taken place in the student's community and surrounding areas.

## See the following appendices of Early Hawaiian Life:

- IV Class System, pp. 228-230
- VII Hawaiian Religion, pp. 231-235
  - IX Kapu System, pp. 241-243

## Unit V<sup>b</sup>

- C Mo'okū'auhau o Kamehameha, p. 137-139
- D <u>Mo'okū'auhau o Kalākaua</u>, p. 140
- E <u>Mo'okū'auhau o Kawānanakoa-Kūhiō</u>, p. 141
- F Birth Chant for Kauikeaouli, p. 142-150

CONTENT AREAS	Emphases	
HEALTH	Mana (spiritual power) was an overpowering force which had to be preserved especially by the ali'i class.	•
	Kapu (rules) system of early Hawai'i bore a close relationship to our rules for healthy living today.	
•		•
Music	Mele inoa - chants and songs about and for the <u>ali'i</u>	
	"Lili'u E" "Iā 'Oe E Ka Lā" "Ka Na'i Aupuni" "He Inoa No Likelike" "'Auhea 'O Ka Lani"	,
	Chants and songs written by the ali'i of post-contact Hawai'i	
	"'Āinahau" by Princess Likelike "Hawai'i Pono'i" by King Kalākaua "Aloha 'Oe" by Queen Lili'uokalani	
		•
		•
	25)	

- Practices behavior that illustrates respect for self, fellow schoolmates, teachers and community resource people.
- Performs roles in simulation activities illustrating individual rights and responsibilities in a group situation.
- Contrasts the differences in marriage customs between the <u>ali'i</u> and <u>maka'āinana</u> classes.
- ullet Discusses the concept of  $\underline{\text{mana}}$  in relationship to the custom of chiefly brothersister marriages.
- Discusses the concept of mana in relationship with the kapu placed on the person, personal effects, food and surroundings of the ali'i.
- Relates certain name chants (mele inoa) to the historical figures for whom they were chanted.
- Indicates how much of our knowledge of former times has been learned from chants to the gods or chants of and for the chiefly class.
- Performs from memory a simple Hawaiian chant.
- Sings selected Hawaiian songs introduced by the teacher while playing rhythm or harmonic instruments ('ukulele, guitar or auto harp) in time with the beat.
- Accompanies a Hawaiian chant using a rhythmic instrument such as an <u>ipu</u>, <u>pū'ili</u>, <u>kāla'au</u>, <u>kā'eke'eke</u>, or <u>'ili'ili</u>.
- Illustrates the tonal-rhythmic patterns of a Hawaiian chant through singing and performing interpretive dance patterns and body movements.
- Coordinates motions and movements of hands and feet while performing a traditional hula kahiko or hula 'auana.
- Recognizes that selected words and expressions found in chants and songs that have been learned can be incorporated into the student's passive or active vocabulary.

#### APPENDICES

Unit V<sup>b</sup> - A "Lili'u E", p. 135

- B "Ka Na'i Aupuni", p. 136



CONTENT AREAS	EMPHASES	
ART	Constructing a mini <u>pu'uhonua</u> (place of refuge) using material Pencil sketching the human body in different poses including	
FOOD AND NUTRITION	Food for the <u>ali'i</u> was surrounded by <u>kapu</u> . Special care had to Role of children in the <u>'ohana</u> (family) was a very important of by the <u>kūpuna</u> of the <u>'ohana</u> .	
GAMES AND SPORTS	Use of Hawaiian cames  Recreation Training of the <u>ali'i</u> for warfare	

#### APPENDICES

- Expresses feelings about the <u>kapu</u> system as it relates to life today using pencil sketching.
- Reproduces a significant symbol of religion that reflects the early Hawaiian belief in justice.
- · Realizes that nutritious food is needed for health and growth.
- Recognizes the nutritional value of the foods eaten by the early Hawaiian ali'i.
- Names some rules in the proper preparation of food for the ali'i of early Hawai'i as well as for those of today (e.g., visiting dignitaries at special occasions).
- Names many of the foods eaten at a Hawaiian <u>lū'au</u> or <u>pā'ina</u> and indicates why they were and are important nutritionally.
- Describes some early cooking methods which are still in use.
- Discusses some of the differences in cooking methods available to the Hawaiians of former times and to people in modern Hawai'i.
- Relates the use of Hawaiian games, sports, and quieter pastimes in former times to improving coordination and agility, physical strength, logical thinking and memory.
- Relates the use of Hawaiian games, sports and quieter pastimes to the training of youthful ali'i for leadership in society in former Hawaiian times.
- Discusses the place of war and the means of waging war in ancient Hawai'i.

See: Appendix III, Early Hawaiian Life, pp. 205-207

Unit VI - C Nutritional Value of Hawaiian Food Plants, pp. 200-201



The following lessons were developed to accompany the lessons found in the 4th grade social studies guide, Early Hawaiian Life, pp. 104-115, Grade 4. Unit Vb

SCIENCE .

- Activities related to the environmental factors involved in the selection of sites for the <u>pu'uhonua</u> (places of refuge) where criminals could find refuge from the law.
  - 1. Run off maps of each island for each student using the original from Na Ki'i Ho'ona'auao (set of illustrations, 8)" x 11").
  - 2. Discussion:
    - a. What happens to people who break important rules today?
    - b. What happened to them in early Hawai'i?
    - c. What can people do today to avoid punishment?
    - d. What did the people of early Hawai'i do to avoid being put to death? (The Hawaiian people tried to run to a place designated as a place of safety and peace called <u>pu'uhonua</u>.)

Read: Dunford. The Hawaiians of Old, pp. 50-51:

- Locate pu'uhonua on each island by using these and other resources:
  - I'i. Fragments of Hawaiian History, p. 138.

Kamakau. <u>Ka Po'e Kahiko</u>, pp. 17-19.

Sterling and Sommers. <u>Sites of O'ahu</u>, p. 351 (list in index).

LANGUAGE ARTS

Language arts activities dealing with early Hawaiian government and today's government

1. Planning and Outlining

See: <u>Early Hawaiian Life</u>, pp. 104-115 for suggested activities.

- a. Having chosen an ali/i to study in social studies, conduct a lesson on library skills dealing with "How to do research." See Integrating Library Skills into Content Areas:

  Sample Units and Lesson Planning Forms, OIS, Multi-Media Services, DOE 1979.
- b. Work with the librarian of your school.
- 2. Write letters to the senator or representative of your district. See: Early Hawaiian Life, p. 107.
  - a. Plan the field trip to the capitol. Have the children write friendly letters of inquiry to the senator and representative of your district, informing them of your intent to to visit the capitol.
    - 1) Go over format for a friendly letter.
    - 2) Have the children contribute their thoughts on what should be included in the letter. Compose a class letter.

HEALTH

Health activities to increase the children's awareness of "kapu" (rules) today and in early Hawai'i that were necessary to keep people living in a healthy environment

Kapu system. See: Early Hawaiian Life, pp. 241-243.

- 1. Talk about the different kinds of "rules" that keep us healthy and safe today.
- 2. Have the children share "kapu" that their parents have passed on to them, modern as well as early Hawaiian. E.g., Do not ask fisherpersons where they are going. Do not take fresh pork across the pali. Do not wear bright colors when going fishing.
- 3. Refer to Pūku'i. Nānā ī Ke Kumu, p. 221 under "Taboo". Read some of the kapu references. If incerest is high, encourage the children to do further research and interview other Hawaiians, especially fisherpersons or farmers.
- 4. Read: Hazama. The Ancient Hawaiians, p. 16.
- 5. Ask:
  - a. How do you think you would have felt if you had to live under the kapu system? (maka'u scared) (ha'alulu nervous) (palekana secure)
  - b. What happens to your body when you are maka'u?

ERIC

Full Task Provided by ERIC

#### Music

#### ART

## GAMES AND SPORTS

- Songs and chants for and by ali'i
  - 1. "Lili'u E" written for Queen Lili'uokalani. See: Keiki o Waimanalo LP, Tradewind Records, TS 1201, Waimanalo Keiki. For instructional procedures see Appendix Unit Vb-A, p. 135. This may be performed as a chant as well as a hula 'auana or hula kahiko.
  - 2. "Iā 'Oe E Ka Lā" written for King Kalākaua. See: Elbert and Māhoe. Nā Mele o Hawai'i Nei, pp. 55 and 56 for words. Music available on Mele Inoa, LP Poki, SP 9003, Ka'upena and Pele.
  - "Ka Na'i Aupuni" (The Conqueror). This song was written in honor of Kamehameha I. See: Appendix Unit Vb-B, p. 136. The words, music and instructions are in the Comprehensive Musicianship Program, Zone 3, Book A, pp. 250 and 254.

- Activities dealing with pu'uhonua - places of refuge for lawbreakers
  - 1. Expressing feelings
    - a. Have the children recall the discussion in health about feelings and record on a chart:
      - maka'u -scared
        pa'apu o loko-tense
        ha'alulu -nervous
        hopohopo -anxious
    - b. Ask: How would you feel knowing that you have committed a crime and can be put to death for it; but, you know you can make it to the pu'uhonua, place of refuge?

pohala -relieved hau'oli -happy 'olu'olu -conforted palekana -safe hopohopo -pressured

c. When the children have become acquainted with the new vocabulary, have them model these feelings with their bodies. Have the children volunteer to be models. One child

Food supply and food preparation for the ali'i.

FOOD AND NUTRITION

- 1. Ask:
  - a. What kinds of foods did the ali'i eat?
  - b. Were they high in traditional value?
  - c. Who supplied the ali'i with their food?
  - d. What other kinds of questions do you have about the food the ali'i ate?
  - e. How were the foods prepared?
  - f. Why was it important that the food for the ali'i be prepared in a particular fashion?
  - g. Do we prepare special food for celebrities who visit Hawai'i?
    E.G., Political dignitaries and entertainment celebrities.

Sources to read about food kapu:
Buck. Arts and Crafts of Hawai'i, Vol. I, Food.

- Early Hawaiian games for the ali'i as well as the maka'ainana (common people)
  - --for recreation
    --for physical fitness in preparation for warfare

Game - string figures - <u>hei</u> or <u>pūkaula</u>.

The making of string figures was a popular activity of the makua (adults) of early Hawai'i. The children can learn some of these figures through instruction.

Sources:
Dickey. Bishop Museum Bulletin
No. 54
Mitchell. Hawaiian Games for Today, "Eia Ke Kaula," p. 65
composed by Nona Beamer.

- 1. The chant is also in Kamehameh. Schools: Ho'omāka'ika'i/Explorations 1981, p. 65.
- 2. Many children know how to make two eyes using the kaula (string). Encourage them to be teachers and have them work with the individuals to teach them each step. Encourage them to use kokua, laulima, alona, and lokahi.

Physical fitness activities for ali'i as well as maka'āinana

#### SCIENCE

4. Have the children look at island maps to locate the places named in the above references.

#### Sources:

University of Hawai'i Press. Atlas of Hawai'i and individual island maps

#### 5. Discussion

- a. Why were these locations selected?
- b. What do they have in common?
- c. In what kind of environment are the pu'uhonua located?
- 5. Display pictures of a few of the <u>pu'u-honua</u> such as Honaunau in Kona and Kualoa in windward O'ahu. Talk about the elements of the environment that make the location ideal as a pu'uhonua.

E.g.: kahakai - beach area kahawai - river, stream kuahiwi - mountain loko i'a - fishpond pali - cliff

#### 7. Ask:

- a. What would life be like today if we still honored the concept of pu'uhonua?
- b. Where would you set up a <u>pu'uhonua</u> if you were the <u>ali'i</u> of your island?
- . Why would you choose that spot?

#### LANGUAGE ARTS

- b. Have the children copy the leter using good form and handwriting. Send one letter to each of the legislators representing the district(s) in which the children live.
- 3. Read the story of Naupaka or show the film, #2031 H, "Naupaka", 8 min. This story is about a princess who falls in love with a maka'āinana but kapu forbids the marriage. Discuss the kapu that governed the lives of the three classes of people.
- 4. Talk about historical events that may have taken place on your island. E.g., battle at Nu'uanu Pali. Choose one event and read about it with the children. Motivate them to imagine the entire event and to write a poem describing the ali'i as he led his warriors or the entire event as it happened. Much of this poem will be imaginative. Encourage the use of Hawaiian words.
- /5. Read stories about the <u>ali'i</u> and have the children listen for interesting facts about each ali'i.

#### a. Sources:

Curtis. Builders of Hawai'i.
Hoyt. The Princess Ka'iulani.
Mellen. Hawaiian Heritage.
Mrantz. Women of Old Hawai'i,
Hawaiian Monarchy, Hawai'i's
Tragic Princess.

#### HEALTH

- c. What can happen to you if you are constantly afraid?
- d. What kinds of things today make us maka'u?
- e. What can we do to get rid of these feelings?
- f. What did the Hawaiians do to get rid of their fears?
- g. Do you think that knowing one's place in society and the rules to follow might make one feel secure rather than constantly fearful?
- 6. Read: I'i. Fragments of Hawaiian
  History, pp. 59-61. The author tells
  how he almost broke two very serious
  kapu which would have resulted in death.
- 7. Mana (spiritual power)

Read: Dunford. The Hawaiians of Old, pp. 38-39.

#### a. Ask:

- 1) How would you like to be the son of an <u>ali'i</u> living under the constant protection and surveillance of guards who needed to protect your <u>mana?</u>
- 2) What would your life be like if these kahu were constantly on guard to protect you? Could you have fun like the other children?

#### Music

#### ART

#### FOOD AND NUTRITION

## GAMES AND SPORTS

4. "He Inoa No Likelike"

This chant was written in honor of Princess Likelike, sister of King Kalakaua and Oueen Lili'uokalani.

Source: Comprehensive
Musicianship Program, Zone
3, Book A, pp. 230-246.
Dance instructions as well
as music and activities are
found on these pages.

5. "Āinahau"

This song was written by Princess Likelike in honor of the beautiful home and surroundings which had been left to her daughter, Ka'iulani, by Princess Ruth. The Princess Ka'iulani Hotel in Waikiki now stands where 'Ainahau was located.

Source: Māhoe. E Hīmeni Hawai'i Kākou, p. 6. Use the autoharp and 'ukulele to accompany the singing.

6. Review:

See: Māhoe, <u>E Hīmeni</u> <u>Hawai'i Kākou</u>.

- a. "Hawai'i Pono'i" by King Kalakaua, p. 16.
- b. "Aloha 'Oe" by Queen Lili'uokalani, p. 4.

will model "Being"
maka'u" while the
rest of the children
will sketch him/her.
This exercise in drawing is to develop the
children's ability to
observe and reproduce,
using soft lead pencil.
Give them about ten
minutes to sketch each
pose.

#### 2. Building a pu'uhonua

- a. Plan a field trip to a <u>pu'uhonua</u> in your area to study the structure and layout.
- b. Have the children make sketches of what they see, including the plants and trees that grow around the pu'uhonua.
- c. Plan how you're going go build a replica.
  Decide on the materials you need, the committee and what will go into it. Consult books and resources for the placement of the houses, entrance, and other important parts of the pu'uhonua.

Handy. Ancient Hawaiian
Civilization.

Ihara. Research Materials,
Bulletin Number 15.

Malo. Hawaiian Antiquities.

- 2. Simulation
  - a. Have the children imagine themselves as children in early Hawai'i. Encourage them to describe how their kauhale prepared a feast for the ali'i of their ahupua'a.
  - b. Have them include kapu involved in food preparation, roles played by people in the kauhale and foods prepared how much, method of cooking, and who prepared the food.
  - c. Have them work in a group or as individuals. Encourage 'ohana concepts as they alu like.
  - d. Sharing

Have them share their simulations. Encourage them to ask questions about the simulations and record these questions for further study in Unit VI

1. Men were trained and ready to fight when their moku (district) was threatened by enemies. They engaged in a variety of games and sports to increase their skill, strength and readiness.

Source: Mitchell. <u>Hawaiian</u> Games for Today.

- a. Pp. 17-26 describe a variety of games for strength and endurance.
- b. Pp. 28-43 describe games of skill. Implements for these sames are available to all fourth grade classes through your district educational specialist for social studies.

Source: Dunford. The Hawaiians of Old, pp. 153-169.

Film Source: 16 mm. Film Catalog/1979, #3395 HM. "Sports of Old Hawai'i", 11 min.

- 2. As the students participate in the activities; have them think about how each activity helped prepare a warrior fur warfare.
- 3. Study Dunford. The Hawaiians of Old, pp. 140-152 on warfare.

#### SCIENCE

#### LANGUAGE ARTS

#### - HEALTH

- 8. Have the children draw a diagram of the pu'uhonua they would like to have on their island.
- b. As each story is read have the children listen for the following bits of information:
- ★ 1) Who were his/her parents?
  - 2) What kind of childhood did he/she have?
  - 3) What kinds of changes were taking place when he/she ruled?
  - 4) What did he/she contribute to Hawai'i's history?
- 6. Study the genealogy charts in Appendix Unit  $V^D$  C. D. E on pp. 137-141.
  - a. Find the monarch being studied and see how he/she is related to Kamehameha I.
  - b. Discuss how genealogy was passed from generation to generation (chants). Share the genealogy chant for Kauikeaouli. See: Appendix Unit Vb-F pp. 142-150.
- 7. Read the story "Law of the Splintered Paddle" written in Hawaiian and English.

See: Na Ka'ao Kahiko (DOE/OIS), p. 129.

- a. Discuss Kamehameha I and have the children infer what kind of ali'i he was.
- b. Creative writingSay, "Imagine yourself as an ali'i in

- Read excerpts from Puku'i. Nana I Ke Kumu, pr. 149-155. Share interesting eliefs about "mana" and real experiences with this power, e.g., p. 151. Share the legend about Keku'iapoiwa (mother of Kamehameha) who craved to eat the eye of shark while pregnant with Kamehameha. This gave her the mana of the shark to give to her unborn son.
- Is it really spiritual power from the gods or is it mental conditioning? How true is the saying: "You can do it once you put your mind to it?"
- d. Ask:
  - 1) How easy is it for you to believe that everything in this world has mana?
  - 2) Why was it easy for the Hawaiians to accept this concept?
- . Marriage customs of <u>ali'i</u>
  - l) Ask: what kinds of <u>kapu</u>
    surrounded the marriage of
    <u>ali'i?</u> Why were these <u>kapu</u>
    mads?
  - 2) Read: Majo. Hawaiian Antiquities, pp. 9-20, 27-37, 54.
  - 3) Discuss the differences between the marriages of ali'i and those of maka ainana. 275

ERIC

Mi	10	IC
1711	12	11.

#### ART

#### GAMES AND RECREATION

7. "'Auhea 'O Ka Lani Lā?"

This song was composed in honor of King William

Charles Lunalilo.

See: Elbert and Mahoe.

Na Mele o Hawai'i Nei, p.

36; (Write the words on a chart with the translation.)

- a. Have the children recall Lunalilo's place in the Kamehameha family. See: Appendix Unit Vb-C, pp. 137-139.
- b. Tell them about Lunalilo to get them acquainted with him. See: Curtis. Builders of Hawai'i, pp. 196-202.
- c. Introduce the chant by playing a tape or record. Have them watch the words on the chart.
- d. Talk about the translation of the chant. As each verse is taught, encourage the children to remember the meaning of the lyrics.
- e. Have them create motions for this chant using 'ili'ili (pebbles).

3. Composing

Collect pictures of the kings, queens, princes and princesses of Hawai'i and create a composite picture of these ali'i. Have the children determine the central theme. Use the genealogy chart of the Kamehameha family to determine the members of the Kamehameha 'ohana and the interrelationship with the Lunalilo family.

See: Appendices for the genealogies of the ali'i.

Unit V<sup>b</sup>-C, pp. 137-139,
Kamchameha-Lunalilo

Unit V<sup>b</sup>-D, p. 140, Kalākaua

Unit V<sup>b</sup>-E, p. 141, Kawānanakoa-Kūhio

of Early Hawaiian Life, pp. 130-147.

FOOD AND NUTRITION

e. Discuss: How were the children of early Hawai'i alike or different from the children of today in helping in the home with cooking, cleaning, prenaring or making household articles?

See: Early Hawaiian Life, pp. 205-207 fcr information on "Children of the 'Ohana" and their role in the 'ohana of early Hawai'i.

- 4. See <u>Culture Studies</u>: <u>Hawaiian Studies Project Data Cards for more information on weapons and warfare</u>.
- 5. Field trip: Visit the Bishop Museum to see weapons used by the Hawaiian warriors. Arrange for a special session with the DOE liaison teacher at the Bishop Museum who will present a mini-lesson on warfare. The children will be able to handle the weapons during the session.

SCIENCE

## LANGUAGE ARTS

early Hawai'i. Think of some kind of wrong doing on your island and write a story about how you want to change the situation by declaring a new law.

Film:

TAC 1974, #0065-1, "The Kalākaua Family."

#### HEALTH

- 4) Read: Ihara. The Eight Rainbows of 'Umi.
  - a. Talk about the decision
    Liloa made when he discovered
    that 'Akaniakuleana was to
    have a child. (If it's a
    girl take care of her as your
    own. If it is a boy, send
    him to me when he is of age.)
  - b. Discuss the <u>kapu</u> in the story especially the <u>kapu</u> of Liloa.

Ask: how would you have felt if you had to run to King Liloa with guards standing with spears ready to strike down anyone who dared to approach the king? Tell or write about your feelings.

#### LILI'U E

Anton Ka'ō'ō

Traditional

Lili'u e, noho nani mai Ko kino e, ki'i milimili.

Ko maka e, noweo wale. Ko papalina, e kuku ana.

Ko po'ohiwi ani pe'ahi. Ko poli e, nahenahe wale.

Ko kuli e, nuku moi 'oe. Ko wawae, pahu a i luna

¡Ha'ina 'ia mai ana ka puana Lili'u e, noho nani mai

Eō e Lili'u i kou inoa Ka hae kalaunu o Hawai'i nei. O Lili'u, sit in a pretty fashion Your body, a doll to play with.

Your eyes, so bright, Your cheeks, standing

Your shoulders, swing fan-like Your bosom, so soft.

Your knee, just a moi fish beak Your feet, pushes up.

Tell the refrain
O Lili'u, sit in a pretty fashion.

Answer to your name o Lili'u
The crowning banner of Hawai'i.

"He Inoa No Kina'u"
Reprinted from Na Mele o Hawai'i Nei collected by Samuel H. Elbert and Noelani Mahoe.
Copyright © 1970. University Press of Hawai'i.

# KA NA'I AUPUNI (The Conqueror) Traditional

1. E Hawai'i nui kuauli

'O Maui nui a Kama

O'ahu o Kakuhihewa

: Kaua'i o Manokalanipō:

HUI: E na'i wale no 'oukou i ku'u pono 'a'ole e pau

I ke kumu pono o Hawai'i

E mau ke ea o ka 'āina i ka pono

2. I ho'okahi, kahi pu'uwai

I ho'okahi, kahi ka mana'o

I ho'okahi, kahi ke aloha

: E mālama i ka maluhia:

Great Hawai'i with its verdant countryside (Lit. green back - poetic expression for Hawai'i)

Great Maui of Chief Kamalalawalu

Chief Kākuhihewa of O'ahu

Chief Manokalanipo of Kaua'i

You (chiefs) must all strive so that my bounty will not end

The moral foundation of Hawai'i

The life of the land is perpetuated in righteousness.

Be of one heart

Be of one thought

Be of one compassion/love

Preserve the peace.

The first line in the hui was thought to be said by Kamehameha I on his death bed to the chiefs who were at his side.

The last line in the <u>hui</u> was uttered by Kamehameha III at Kawaiaha'o Church on July 31, 1843 after the islands had been restored its independence by Admiral Richard Thomas, for whom Thomas Square was named. (It was at this site that the ceremonies took place.)

The second line of verse 1 is also sung as "E na hono a'o Pi'ilani - the bays of Chief Pi'ilani" (of Maui).

#### Mo'okū'auhau o Kamehameha

Prepared by Noelani K. Mahoe

#### Bibliography:

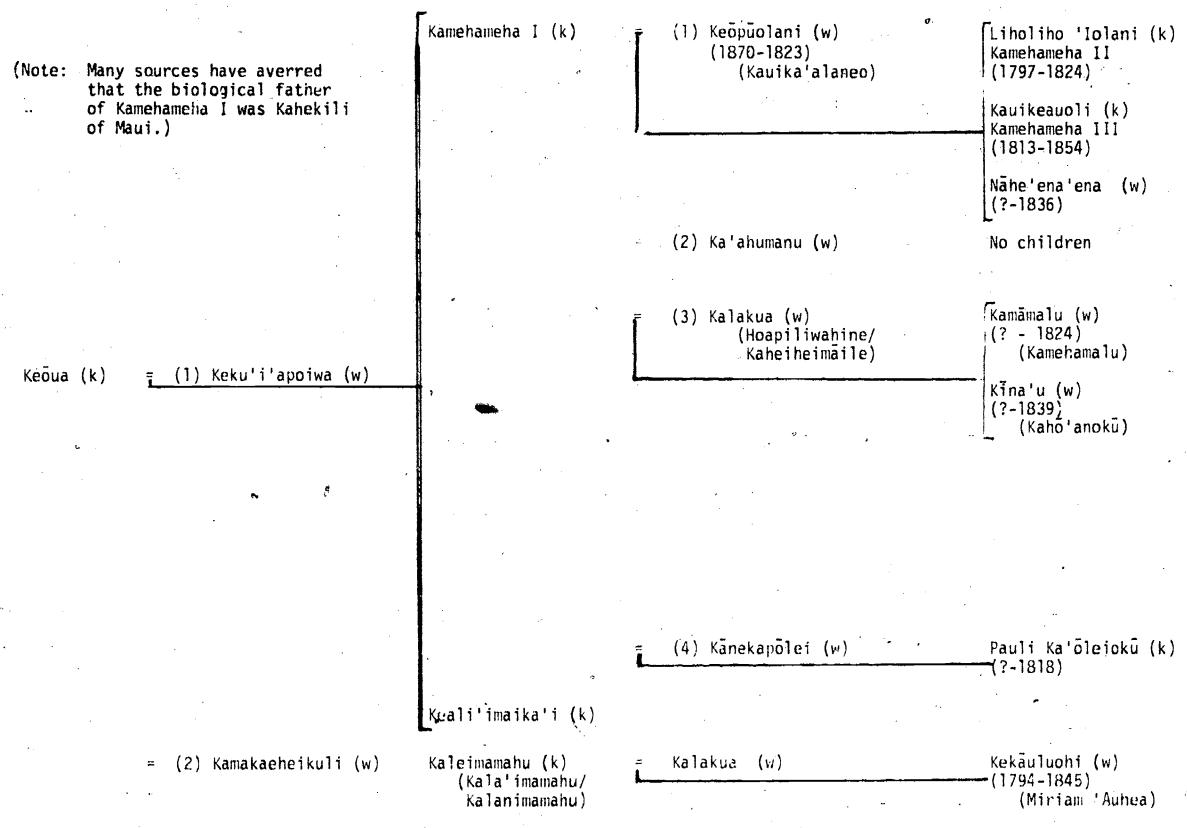
Kamakau, Samuel. Ruling Chiefs of Hawai'i, Kamehameha Schools Press, 1961.

- Sterling, E.P. <u>Compiled Index to Ruling Chiefs of Hawai'i</u>, Department of Anthropology, Bernice P. Bishop Museum, 1974.
- Rubincan, Mitton. America's Only Royal Family, Washington, D.C. National Genealogical Society, 1968.
- Spoehr, Anne. Compiled "Biographical Data of the Royal Line of Hawai'i", Bernice P. Bishop Museum, 1957.

Archives of Hawai'i. "Kamehameha Dynasty and Lunalilo Relationship", revised 1971.



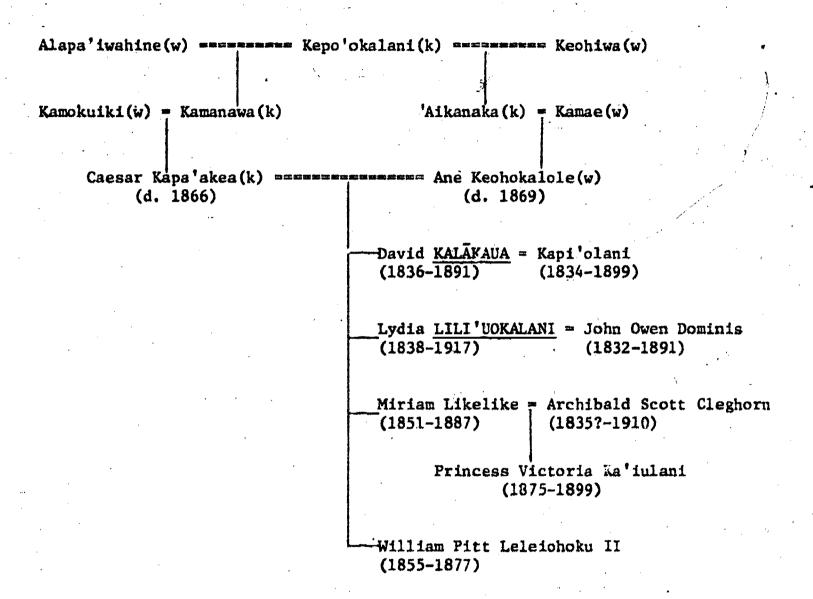
## Grade 4, Appendix Unit Vb-C



ERIC
Full Text Provided by ERIC

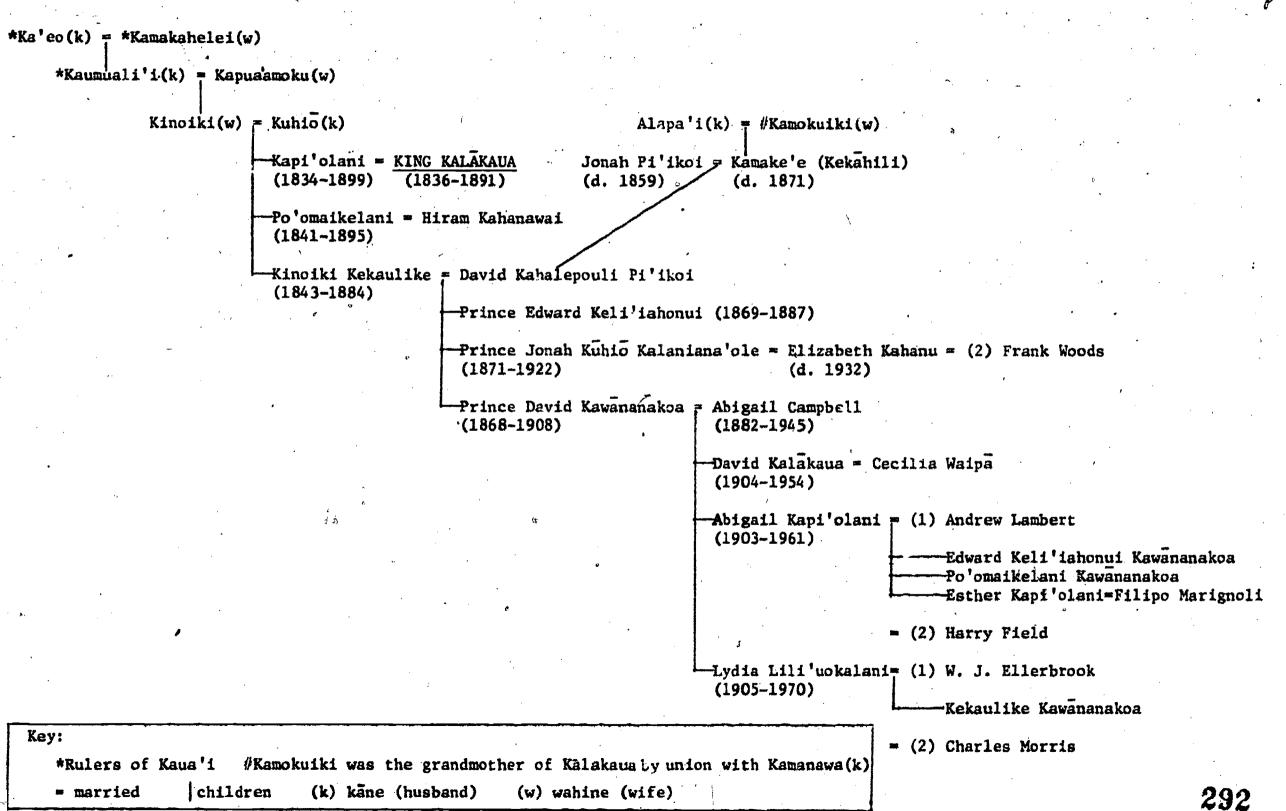
= Kamamalu (w) Mo'oku'auhau o Kamehameha = Kalama (w) Keaweawe'ulabkalani (k) (?-1870)(lived 31 days) = Wm. Pitt Leleiohoku (k) (1821 - 1848)David Kamehameha (k) = Liholiho 'Iolani (k) (1825-1835)Kamehameha II (1797-1824)Moses Kekuaiwa (k) (1829 - 1848)Kekuanao'a (k) Lot Kapuaiwa (k) (1794-1868)Kamehameha V (1830-1872)Prince Albert Edward Kauikeaouli Leiopapa a Kamehameha = Emma Rooke (w) Alexander Liholiho (k) (1858-1862) Kamehameha IV (1834-1863)Victoria Kamāmalu (1838-1866)(1) Keouawahine (w) Pauahi (w) = Kekuanao'a (k) Ruth Ke'elikalani Wm. Pitt Leleiohoku (k) \_(Kalanipauahi) <del>(</del>1826-1883) = (2) Luahine (w) (Kahaili'opua)  $= P\bar{a}k\bar{i}(k)$ Konia (w) Bernice Pauahi Bishop (?-1855)(?-1857)(1831-1884)= Charles Kana'ina William Charles Lunalilo (1835-1874)(?-1877)

#### Mo'okū'auhau o Kalākaua



Key: (k) kane (husband) (w) wahine (wife) (=) married | children Ruling monarchs underlined

#### Mo'okū'auhau o Kawananakoa - Kūhiō



ERIC

# Birth Chant for Kau-i-ke-ao-uli

THE CHANT WAS composed in honor of a newborn son of Ka-mehameha I, Kau-i-ke-ao-uli (1813– 1854), who, as Ka-mehameha III, succeeded his brother, Liholiho, to the Hawaiian throne in 1824. He was born seven years before the arrival in 1820 of the first New England missionaries.

The chant reflects conventions of the sacred art of the hula, which has been described as "in essence a magical ritual designed to bring rain and fertility" (Handy, Cultural Revolution, p. 12). In pre-Christian Hawai'i hula troupes, attached to the houses of ruling chiefs, performed their ritual prayers, songs, dances, and musical accompaniments primarily for two purposes and on two occasions. One was the annual makahiki festival, a first-fruits celebration beginning in October and lasting four months, in honor of the agricultural and fishing god Lono. The purpose of the other occasion, as in this chant for the infant Kau-i-ke-ao-uli, was to bring "an enriching and empowering magic" to the ceremonial and sexual union of ali'i, high chiefs, especially to the birth of a royal child destined to become a great leader (Handy, Cultural Revolution, p. 12).

Kau-i-ke ao-uli, second son of Ka-mehameha I and the royal chiefess Ke-ōpū-o-lani, was stillborn, a circumstance alluded to in the repeated references to his mother's difficult labor. The babe was "prayed into life" by a high priest, Ka-malo-'ihi (also called Ka-pihe), whose therapeutic and prophetic prayer made much of the idea that "the heavens will come down"—in other words, that the native temples would be destreyed, that their priests would abandon or he forced from their priesthood, while the ruling chiefs themselves would lose their posts as sacred heads of government. They would become more like ordinary men.

In the birth chant of Kau-i-ke-ao-uli, in the repeated query "Who shall be here below?" there is perhaps a pervasive premonition of this same notion of the declension of the heavens and the transformation of the old ruling chiefs into mere human beings.

The name of the royal child, Kau-i-ke-ao-uli, meaning 'placed in the dark sky', is expressive of many of the thoughts obscurely, and yet so radiantly, embedded in the language of the original Hawaiian. The native word ao carried profound associations for the early Islanders. The word can mean sky, light, day, daylight, and dawn. It can refer to the regaining of consciousness, and to achieving mental enlightenment. The idea of dawn is closely connected with the idea of night, and both fit in with the Hawaiian time sense, so that in this ancient language it is

quite possible to speak of "that night that dawned yesterday." In some contexts ac can mean world or earth; and it can refer also to any kind of cloud.

So in this single nuclear element of Kau-i-ke-aouli's sacred name are clustered and concentrated the seeds of some of the major symbols and sweeping cosmological conceptions found in the language of this old noble poem.

#### **689 689**

Mele Hänau nö Kau-i-ke-ao-uli

1

- O hānau a hua Kalani.
- Oho'onā kū i luna,
- O momoe o ma'ule ka piko,
- O kolokolo ia po ke ewe,
- O mulea, o malahia ka nalu, ke a'a.
- O ho'onā kū o ka malama,
- O ka'ahē a ka 'īloli,
- O ho'owiliwili e hānau Kalani.
- 'O ia ho'i, 'o Kalani, hānau Kalani.
- 'O Kalani ia ho'i auane'i kō luna nei la.
- 'O wai la ho'i auane'i kō lalo la?
- O hānau ka honua, a mole ka honua.
- O kolokolo ka a'a, ka weli o ka honua.

Text: Mary Kawena Pukui

O lani weli ka honua, o lani 'i'i.
O holo pu ka mole, o 'u'ina ke a'a,
O hale ka pou lewa ka honua.
O pali nu'u ka honua, akea ka honua,
O honua ku, o honua noho ka honua,
O honua lewa, o honua pa'a, ka honua,
Ka honua ilalo, ilalo nu'u ka honua.
O honua a Kea, na Kea ka honua.
O honua a Papa, na Papa ka honua,
'O ka hiapo honua a Papa i hanau.
'O ia ho'i, 'o ka honua, hanau ka honua.

'O ka honua la ho'i kō lalo nei.
'O wai la ho'i auane'i kō luna la?

O hānau ka pō iluna,
Hānau ka pō i luna nei.
O lani hāne'e ka pō, o pīna'i ke ēwe.
O pipili ka pō, o moe anana le'a,
O kōhi ana, le'a ka pō o Mahina-le'a.
O huli ka pō, o ka'awale ka pili.
'O ke keiki pō lani keia a Kea i hānau,
Keiki 'akāhi a ka pō, keiki 'alua a ka pō,
Keiki 'akolu a ka pč.,
'O ke kuakoko a ka pō,
E hānau mai auane'i ka pō,
'O ia ho'i o ka pō, hānau ka pō,

'O ka pā la ho'i ausne'i kō luna nei la.

'O wai la ho'i auane'i kɔ lalo?
'O wai la ho'i o ka moku?

111

O hānau ka moku a kupu,
A lau, a loa, a a'a, a mu'o, a liko.
Ka moku ia luna o Hawai'i.
'O Hawai'i nei nō ka moku.
He pūlewa ka 'āina, he naka Hawai'i,
E lewa wale ana nō i ka lani lewa,
Hanou mai e Wākea, pā hano ia.
Mālie 'ikea ka moku me ka honua,
Pa'a 'ia lewa lani i ka lima 'ākau o Wākea,
Pa'a Hawai'i, la'a Hawai'i, 'ikea he moku.

O ka moku la hoʻi kō lalo nei.
'O wai la hoʻi kō luna, 'owai la?
Ok ao, 'oia hoʻi hā.

IV

O hānau ke ao, o hiki a'e.
O 'ohi a'e ke ao, o hiki a'e.
O mokupawa ke ao, o hiki a'e.
O aka 'ula ke ao, o hiki a'e.
O moakaka ke ao māla'e.
'Ōpukupuku ke ao melemele.
O memele ka 'ōpua he la'i.
O 'ōpua nui, uli ka 'ōpua hi vahiwa,
O hiwahiwa ka 'ōpua lani'ele,

'Ele'ele ka lani huhulu weo, Lani 'eka'eka hā'ele'ele, Hākona, hākuma, hākumakuma, 'O ke ao nui mai he'e ua kaia. E ho'owiliwili ana e hānau, 'O ia ho'i, 'o ke ao, hānau ke ao.

'O ke ao ho'i hā kō luna nci.
'O wai la auane'i kō lalo la?
'O ka mauna, 'oia ho'i.

Y

Ohānau ka mauna a Kea. 'Ōpu'u a'e ka mauna a Kea. 'O Wakea ke kane, 'o Papa, 'o Walinu'u ka wahine. Hānau Ho'ohoku he wahine. Hānau Hāloa he ali'i. Hānau ka mauna, he keiki mauna nā Kea. Okalili o Wākea, oka ha'i i ka hala, Oke kū kukū lā'au 'ana me Kāne. I ho'oūka ai iloko o Kahiki-kū. He'e Wākea, kālewa kona 'õhua. Kuamū 'ia e Kāne, kuawā 'ia e Kāne. Ho'i mai Wākea a loko o lani momoe. Moe Wākea, moe iā Papa. Hānau ka lā nā Wākea, He keiki kapu nā Wākea, 'O ka uluna a Wākea nā Kea nō. 'Oia ho'i hā, o ka mauna, hānau ka mauna.

That was the island over Hawai'i.

Hawai'i itself was an island.

The land was unstable, Hawai'i quivered,
moved freely about in space,

Wākea recognized the island, Hawai'i recognized
remained.

Visible were island and earth,
held in heavenly space by the right hand of Wākea,
Hawai'i was held, Hawai'i was seen, an island.

Down here shall be an island.
Who shall be above—Who?
The cloud, that is who it shall be.

I٧

The cloud was born, it rose and appeared.

The cloud thrived, it rose and appeared.

The cloud came at dawn, it rose and appeared.

The cloud flushed with a reddish tinge, it rose and appeared.

The cloud rose and appeared in clearest configuration, turned yellow and menacing.

The horizon cloud hung yellow over a calm sea.

A swelling cloud, a dark cloud, a cloud whose deepening darkness turned to black in a sky already black with feathery clouds of dusk, a sky heavy with blackness, rough, lowering, a sky speaking in threat: a vast cloud foretelling the approach of rain. The sky writhed in labor to give birth. He is this cloud: thus it was born.

A cloud shall be up here.
Who shall be below?
The mountain, that is who it shall be.

V

Born of Kea was the mountain,
the mountain of Kea budded forth.

Wäkea was the husband, Papa Walinu'u was the wife.
Born was Ho'ohoku, a daughter,
born was Hāloa, a chief,
born was the mountain, a mountain-son of Kea.

Jealous was Wākea, he revealed his fault,
told of his smiting Kāne with a club
in battle, fought in Kahiki-kū.

Wākea was routed, fled in confusion with his family.
None spoke to Wākea save in whispers, but Kāne
shouted.

Wākea returned to the sky seeking a wife.

He mated, sleeping beside Papa as mate.

The sun was born to Wākea,
a sacred offshoot of Wākea,
the growth of Wākea was Wākea's own.

He was this mountain's growing, this chief: so was the mountain born.

## Grade 4. Appendix Unit Vb-F

The mountain shall be down here. Who shall be above? The sun, that is who shall be above.

V!

The sun was born to be mine,
mine the sun of Kupanole.

At Kupanole the sun held back,
the sun held back for Hina's sake.

Rays of the sun made secure
the boundaries of Hilinamā, of Hilinehu,
joined the branch of a kamani tree
to the linked branches of the red kamani.

The wings of Halulu were broken, broken.

They were severed by the sun,
by the sky-voyaging sun of Kea.

Wākea was below, above was the sun,
the sun-child born to Kea.

He it was, the sun-child: the sun brought to birth.

The sun shall be above.
Who shall be below?
The ocean, that is who shall be below.

VII

The ocean was born of Kea, the surf for Kea, the sea for Kea, the wild sea, the gentle sea for Kea, the coral beds, coral caverns that grow for Kea, the fish who twist and turn in the surge.

Deep black were the headlands pointing seaward, broad lay the ocean spread out below.

Who shall be above?

Kū, Lono, Kāne, Kanaloa,

Ka'cka'e and Mauli, composers of prayers, givers of prayers, high priests who uttered solemn prayers in sacred places,

voiced them in places free: free of kapu was the place of the chief!

Born was Kū, let him remain above. Who shall be below? Who indeed?

From Hāloa men came forth, chiefs multiplied.
Chief Ka-mehameha was conceived above,
the first chief, the first up here.
The Chiefess Kau-i-ka-'alaneo was the second up
here.

They joined, claring together. Was it not so?
Ka-lani-nui-kua-liholiho was the first
to inherit the kapus, the first up here.
Chief Kau-i-ke-ao-uli was the second up here.
Brothers are they, close joined: they hold firm to
one another.

So it is.

'O ka mauna auane'i kō lalo nei. 'O wai auane'i kō luna la? 'O ka lā, 'oia ho'i hā.

Ohānau ka lā a nā'ū,
Onā'ū ka lā o Kupanole.
'O Kupanole ka lā kōhia,
Kōhia ka lā iā Hina.
'O ke kukuna o ka lā pa'a,
'O ka pe'a o Hilinamā, o Hilinehu,
'O ka lālā o ke kamani,
'O ka hui o ke kamani 'ula.
'O ka 'ēheu o Halulu,
Ke ha'ina mai lā, ha'i,
Ke hakia mai la e ka lā,
E ke keiki hele lani ā Kea.
'O Wākea ka i lalo, o ka lā ka i luna,
'O ke keiki is ā Kea i ho'okauhua ai.
'O ia ho'i o ka lā, hānau ka lā.

'O ka lā auane'i kō luna.
'O wai auane'i kō lalo nei?
'O ka moana, 'cia ho'i hā.

Hānau ka moana ā Kea, O nā nalu nā Kea, o ke kai nā Kea, O kai kāne, o kai wahine nā Kea, O koʻa kū, o koʻa hālelo ulu nā Kea,
O hoʻowiliwili a ka iʻa iloko o ka moana.
Uliuli, 'ele'ele nei lae o ka moana.
O ka moana auaneʻi kō lalo nei.
'O wai auaneʻi kō luna e?
'O Kū, 'o Lono, 'o Kāne, 'o Kanaloa,
'O Kaʻekaʻe, 'o Mauli,
O haku o ka pule, o nuʻu pule,
O nuʻu kahuna, o ʻeli'eli holo i mua kapu,
O ʻeli'eli holo imua noa, noa ka hānau ʻana o ke ali'i.

Hānau Kū, 'o Kū la auane'i ho'i kō luna. 'O wai la ho'i kō lalo nei, 'o wai la?

'O Hālos, puka kānaka, laha nā ali'i.
Loa'a i luna nei 'o Ka-lani Mehameha,
'Ekāhi ka lani la, 'ekāhi o luna nei.
'O Ka-lani Kau-i-ka-'alaneo 'elua o luna nei.
Pili lāua, ua mau paha, 'oia paha?
'O Ka-lani-nui-kua-liholiho 'akāhi,
I ke kapu la, 'akāhi o luna nei.
'O Ka-lani 'o Kau-i-ke-ao-uli, 'alua o luna nei,
Pili lāua, ua mau paha.

'Oiac.

#### **686**

305

## Firth Chant for Kau-i-ke-ao-uli

The chiefess gave birth, she bore in labor above, she lay as in a faint, a weakness at the navel. The afterbirth stirred at the roots, crept in darkness, in waves of pain came the bitter bile of the child. This was a month of travail, of gasping labor,

Now a chief shall be here above. Who shall be below?

He is this chief, born of a chiefess.

a writhing to deliver the chief.

Born was the earth, rooted the earth.

The root crept forth, rootlets of the earth.

Royal rootlets spread their way through the earth to hold firm.

Down too went the taproot, creaking like the mainpost of a house, and the earth moved. Cliffs rose upon the earth, the earth lay widespread: a standing earth, a sitting earth was the earth, a swaying earth, a solid earth was the earth. The earth lay below, from below the earth rose. The earth was Kea's, to Kea belonged the earth.

The earth was Papa's, to Papa belonged the earth, the earthly firstborn borne by Papa.

He is this earth, the earth that was born.

The earth shall be here below. Who shall be above?

1

Born was the night above, born was the night up here.

The heavens slid away into the night, swift came the afterbirth.

The nights came closer together, stretching along until came a separation, making distinct the night of Mahina-le'a.

The night turned, closeness became separated.

This is the royal offspring of night borne by Kea, first child of the night, second child of the night, third child of the night.

The night lay in travail to give birth to the night.

He is this night, the night newly born.

Who shall be below?
Who shall be upon the island?

111

Born was the island, it grew, it sprouted, it flourished, lengthened, rooted deeply, budded, formed tender leages.





NOTES

Kea (for Wakea) and Papa: Progenitors of chiefs. The birth of the prince is linked to cosmic even s and these are personified and mythologically defined in the mating of the sky-father, Wakea, and the earth-mother, Papa.

11

Born was the night: Night (pō) here refers to the world of the unseen as revealed in dreams. Thus the gest tion and birth of the child was accompanied by a series of revelations of increasing intensity, until there appeared Mahina-le'a, when "the moon shope at its brightest"—probably the act of parturition. The sequence of three "royal offspring borne by Kea" may be an allusion to the three children of Ke-ōpū-o-lani sired by Ka-mehameha.

Ho'ohoku and Hāloa: Ho'ohoku was a daughter of Wākea' by whom she bore offspring. Hāloa was the name of two sons born of the mating. The first son was the taro plant; the second (an ancestor of Kau-i-ke-ao-uli) was a man. The name Hāloa (literally, 'long breath') is based on the form hā, referring to breath expelled to impart mana, 'magical power', as when a priest would exclaim "Hā!"

Kane: A comprehensive source-god worshiped by early Polynesians as the god of life, water, sunlight, and the whole world of nature. Three other major gods are invoked later in the chant. Kanaloa, companion of Kane, is introduced as a god of healing. Kû, a male fertility symbol, was regarded as a god of human activities, especially

cance-making and war. Lono, also concerned with fertility, presided over the peaceful activities of fishing and agriculture.

vi

sun of Kupanole: The allusion is obscure, but appears to refer to a place involved in legends of the moon-goddess Hina. The "boundaries of Hilinamā, of Hilinahu" likewise may be a reference to mythical events connected with the monthly lunax cycles. Malo, Hawaiian Antiquities, lists Hilinamā as the name of a month and Hilinahu as the name of both a month and a star.

Halulu: A mythical bird and messenger of the high gods, one of the sons of the goddess Haumea, mother of Pele and her sisters. The historian Kamakau noted that the feathers that rise and fall on the heads of images in answer to kahuna prayers were believed by Hawaiians to come from the sacred birds Halulu and Kuwa'a—"wonderful feathers made out of particles of water from the dazzling orb of the sun" (Beckwith, Hawaiian Mythology, pp. 91–92).

W

Ka'eka'e and Mauli: Two legendary, if not historic, men famous for their religious piety. The gods kept them alive until extreme old age. In a chant honoring Ka-mehameha, Fallen Is the Chief (Haui ka Lani), they are mentioned as forebears (kupuna) of Ka-mehameha.

Kau-i-ka-'slaneo: Literally, 'placed in the clear sky'; another name for Queen Ke-öpū-o-lani, 'the flower opening in the sky'.

Ka-lani-nui-kua-liholiho: Liholiho, Ka-mehameha II (1792–1824), elder son of Ka-mehameha I by Kc-öpü-o-

## Grade 4, Appendix Unit V<sup>b</sup>-F

lani. After his father's death, the widowed Queen Ka-'ahumenu proclaimed that, according to Ka-mehameha's will,
she and Liholiho would rule over the Kingdom. Both
Liholiho and his sister-wife, Queen Ka-māmaļu, died of
measles while in London in 1824, when on a mission to discuss the possibility of a British alliance with Hawai'i.

Reprinted with permission from The Echo of Our Song, translated and edited by Mary Kawena Pūku'i and Alfons Korn. Copyright © 1973 by the University Press of Hawai'i.





# KAPU

Grade 4, Unit VC The following lessons were developed to accompany the lessons found in the 4th grade social studies guide, Early Hawaiian Life. **EMPHASES** CONTENT AREAS Religion of Early Hawai'i SOCIAL STUDIES Akua (gods) Aumākua (family guardian spirits) Heiau (places of worship) Kāhuna (priestly experts) Kapu (system of laws, rules and regulations governing all aspects of life) Religions of today Buddhism Christianity Hinduism Taoism Symbols of royalty Materials and tools used in the production Steps involves in the production Significance of the symbols. Hawaiian medicinal plants SCIENCE Recognition of plants Use of the plants as medicine Cultivation procedures Native Hawaiian birds (Bird watching) Their usefulness and habits Availability today Reading, discussing, summarizing LANGUAGE ARTS Legends of akua (gods), 'aumākua (family guardian spirits) and kupua (demigods)
Legends, stories and personal observations of early Hawaiian featherwork (symbols of royalty) Reading about and planning a Makahiki Learning to find information from books

312

Planning and working with others--communication skills

#### **APPENDICES**

- Identifies and compares the function of religion in early Hawai'i with that of one's own ethnic group and other ethnic groups.
- Appendices of Early Hawaiian Life

• Explains the role of religion in the societal structure of early Hawai'i.

V - Ho'oponopono, pp. 225-227

Identifies the effects of kapu (system of rules) on Hawaiian society.

VII - Hawaiian Religion, pp. 231-235

Describes and explains the importance of the symbols that were worn by the ali'i of early Hawai'i.

- VIII Kahuna, pp. 236-240

IX - Kapu System, pp. 241-243

See: Science in Hawai'i, p. Jl. for science objectives

- Discusses the kinds of plants that grow in the different environmental zones from the seashore to the mountain.
- Compares the Makahiki time in early Hawai'i with its lifting of the kapu and the general rejoicing associated with it to harvest festivals in other
- Classifies flora (and fauna) found during nature study excursions in the different environmental zones on the islands from the beach areas to the uplands.
- cultures which have been studied.

Works with partners or groups on Hawaiian language or culture oriented activities such as an oral presentation, a bulletin board display or Makahiki festival.

X - Symbols of Royalty, pp. 244-248

Listens to and answers questions orally and in writing about a legend or story about Hawai'i told in English but containing Hawaiian expressions and phrases appropriate to the child's level of language development in Hawaiian.

Unit V<sup>C</sup> - B Ka Makahiki, pp. 174-175

CONTENT AREAS

EMPHASES

HEALTH

Kāhuna (priests/experts in technology) of early Hawai'i, especially the kahuna lapa'au (healing doctor)

Ho'oponopono (the problem-solving system of the Hawaiians)

Music

Chanting: Makahiki chant for the god Lono

Contemporary songs about the flowers and plants of early Hawai'i that were very important as sources of medicine; but today, the beauty of these plants is compared to the beauty of loved ones

Songs of Hawaiian birds prized for their feathers

	LEARNER OBJECTIVES	APPENDICES
•	Investigates the interrelation of spirituality and cognitive knowledge embodied in the kahuna class.	Unit V <sup>C</sup> - C Medicinal Plants, pp. 176-177
•	Discusses the training of $\underline{k\bar{a}huna}$ who specialized in using herbs and other methods to improve and restore health.	
•	Describes the ethnobotanical uses of plants by the Hawaiians including medicine, religious and social rites.	
•	Describes the way of life of the early Hawaiians as a result of adaptation to the environment.	
•	Identifies the steps which took place during the Hawaiian family therapy called ho'oponopono.	
· 		
	Performs from memory simple Hawaiian chants.	Unit VC - A "Ho'okupu Chant," p. 172
•	Sings selected Hawaiian songs introduced by the teacher while playing rhythmic or harmonic instruments ('ukulele, guitar or autoharp) in time with the beat.	D Birds of Hawai'i, pp. pp. 178-179
•	Creates lyrics and melodies concerning a Hawaiian theme using English and Hawaiian words, expressions and phrases.	a
•	Recognizes that selected words and expressions found in chants and songs that have been learned can be incorporated into the student's passive or active vocabulary.	
	Associates music within the mystic and religious/spiritual life of the non-literate Hawaiian of former times.	

Grade 4, Unit V <sup>C</sup>	
CONTENT AREAS	EMPHASES
ART	Hawaiian crafts - using materials from the environment to create game implements  Construction of akua loa banner and pole image necessary in the Makahiki celebration  Crafts: Pala'ie (loop and ball), kilu (coconut bowl) and hu (top)
GAMES AND RECREATION	Simple Hawaiian games.  Advanced body movements in games and dances  Competitive participation in games
MATHEMATICS	Counting in early Hawai'i

APPENDICES

- Reproduces implements needed to participate in early Hawaiian games by using the same materials from the environment used by the early Hawaiians.
- Reconstructs a symbol of religion signifying an important aspect of Hawaiian living.
- Teaches younger children the rules for simple Hawaiian games and activities.
- Performs more advanced or complicated body movement patterns in games and dances.
- Participates competitively in Hawaiian games and sports.
- Relates the use of Hawaiian games, sports, and quieter pastimes in former times to improving coordination and agility, physical strength, logical thinking and memory.
- Relates the use of Hawaiian games, sports and quieter pastimes to the training of youthful ali'i for leadership in society in former Hawaiian times.

Counts in Hawaiian using the early Hawaiian system of counting.

322

Unit V<sup>C</sup> - E Ka Helu Hawai'i-Hawaiian Enumeration Bulletin Number 16, pp. 180-181 SCIENCE

The medicinal plants of early Hawai'i played a significant role in the religious life of the Hawaiian people.

Opening: The Hawaiians believed that all plants had special power given to them by the gods to heal disease.

Study the Hawaiian medicinal plants. Learn how to cultivate them in a Hawaiian medicinal garden on the school grounds.

- 1. Refer to Science in Hawai'i, A Fourth Grade ETV Guide, "Hawai'i's Plants as Medicine, pp. J1-J10.
- 2. As the children study the functions of a kahuna la'au lapa'au in health, begin a study of the Hawaiian plants found in Hawai'i many years ago.
- 3. Use the Aloha Council, Boy Scouts of America book, <u>Hawaiiana</u>, pp. 56-97 as a reference for recognizing the plants in the environment.
- 4. Go on a walking tour of the community and locate some of the plants. Ask permission to take samples or plantings in plastic bags. Have the children note where each plant grows and the different environmental zones.
- 5. Enlist the help of the school custodian to help with this project.
  Have the children learn how to become planters by having them handle small 'o'o that they can make out of guava wood.

LANGUAGE ARTS

• These activities in language arts deal with the importance of the gods, family gods and demigods in the lives of the Hawaiian people.

Reading legends dealing with the gods and kāhuna. See language arts activities listed in Early Hawaiian Life, p. 120. These reading activities may be set up in a reading corner. Have available copies of:

Buffet. Puapualenalena

Curtis. Life in Old Hawai'i

Dunford. The Hawaiians of Old

Lyons. Fire and Water and Other Hawaiian Legends

Malo. Hawaiian Antiquities

McBride. The Kahuna

Morrill. Kahuna: The Black and White Magicians of Hawai'i

Ne. Legends of Moloka'i

Pūku'i. Tales of the Menehune

Pūku'i. The Water of Kāne
Contains legends from the
different islands of Hawai'i.

Thompson. Hawaiian Tales of Heroes and Champions

Adventures of Kamapua'a 'Aukele the Fearless

HEALTH

• The following inquiry activities serve to clarify the importance of the "health doctors" in the religious life of the people. See: Early Hawaiian Life, pp. 236-240.

#### 1. Ask:

- a. What is a "kahuna"? Have the children make predictions based on the amount of reading they've done and on stories they've heard from their parents or other family members.
- 2. Have them discuss the religious aspects of the kahuna class. Read: Dunford. The Hawaiians of Old, pp. 34-35.
- 3. Have them ask more questions about the role of the kahuna in early Hawai'i. Using these questions, organize research into the role of the kahuna. For references see Early Hawaiian Life, pp. 238-240.
- 4. Have the children begin a chart of all the <u>kahuna</u> they read about in their research. As they find information, have them add it on to the class chart.

Type of Kahuna	Function
Kahuna Lapa'au	Medical doctor
Kahuna Ku'auhau	Genealogy specialist

5. Ask: How were the <u>kāhuna</u> trained to be experts? Who trained them?

## Music

ART

## GAMES AND RECREATION

• Learn the "Ho'okupu Chant" composed by some members of the staff at Kamehameha Elementary School. This chant was written for Lono, god of agriculture and games. This chant beckons the people to bring their makana (gifts) to Lono.

See: Appendix Unit V<sup>C</sup>-A, p. 172.

- 1. Teaching procedure
  - a. Write the words on a --
  - b. Have the children identify the familiar ... Hawaiian words. Underline them with a red pen.
  - c. Introduce the new words to the children.
  - Demonstrate the use of the minor third used in Hawaiian chants by chanting in two tones the Pī'āpā song ('Ā. alapi'i, a) which the children may have learned in an earlier grade. Ask the Music or Hawaiian Studies Resource Teacher for kõkua, if needed. Have the children listen carefully to the two tone minor third chanting style.

- In order to play some of the early Hawaiian Makahiki games, the implements needed to be made. The Hawaiians took the materials from their environment and fashioned their game implements.
  - Making a hū, kilu, pala'ie.
    - a. See games and recreation plans for games for quieter moods.
    - b. Instructions for making these are found in:

Mitchell. <u>Hawaiian</u> <u>Games for Today</u>

hū - p. 64

pala'ie - pp. 61-62
kilu - p. 59

- c. Materials needed:
  - 1) <u>Hu: kukui nuts</u>
    coconut midribs
    electric drill
    sandpaper
  - 2) Pala'ie:
    12 coconut
    midribs per
    student

- Using the discussion of medicinal doctors in health, talk about the importance of exercise, proper sleep and good nutrition.
  - 1. Have the children recall the purposes of the Hawaiian games in Unit V<sup>b</sup> pp. 129, 131 as they were used by the ali'i for skill building.

Hawaiian games were an important part of the Makahiki (Harvest) Festival. For four months the people engaged in these games building their skills.

- Engage in Hawaiian wrestling to build strength.
  - a. Use Mitchell's Hawaiian wrestling games on pp. 17-26.
  - b. Have play-offs and pick a few to be performers in a <u>Makahiki</u> festival at your school.
  - Begin each game with "Ho'omakaukau" (Get ready!). "'O ia!" (begin!)

## SCIENCE

- 6. Have them cultivate the soil and soften the soil for planting just as the Hawaiians did.
- 7. Talk about early Hawaiian fertilizer or mulch that was used to enrich the soil.
- 8. Discuss and research the procedure of planting.

Did the Hawaiians conduct prayers? Were there rituals?

What kind of fertilizer was best for which kind of plant?

Resources: Handy. Native Planters in Old Hawai'i, pp. 21-26

Handy. Ancient Hawaiian Civilization, pp. 113-121

Talk to a Horticulture teacher or science resource teacher in your district about the best location for the Hawaiian plants.

See: Krauss. Creating a Hawaiian Ethnobotanical Garden available at the Lyon Arboretum.

- 10. Find information related to the following:
  - a. How long does it take for the plant to mature?
  - How much water does it need?
  - c. What's the best fertilizer for the plant?
  - d. How is the plant useful today?

328

## LANGUAGE ARTS

1. Discuss the Hawaiian spiritual power called mana.

Opening: Religion played a very important role in every aspect of Hawaiian life. The people believed that everything had mana (spiritual power) to some degree. They believed in the preservation of this mana. so religious ceremonies were an important part of every activity.

- 2. Allow time for the children to go to the corner to read legends about the various akua, 'aumākua and kupua (demigods) of early Hawai'i.
- 3. Encourage the children to share the stories they read with others by setting up a signup schedule of "Talking Time" when they can present a legend using drawings they've done.
- 4. Set up a writing corner with pictures of kahuna, ku'ula images, or the god Ku or Lono and encourage the children to write their own legends.
- 5. Read: Pūku'i. Water of Kane pp. 139-140 to the children.

## Ask:

- a. What story does this legend remind you of? (Biblical story of Adam)
- b. What is the function of each god in the story?
- c. How many gods did the Hawaiians have?

## HEALTH

## See:

- a. Curtis. Life in Old Hawai'i, pp. 244-255
- b. Early Hawaiian Life, pp. 205-206
- c. Kāhuna Lā'au Lapa'au, pp. 31-43
- 6. Compare this training with that of today. How do doctors become "doctors"?
- 7. Study the kahuna lapa'au
  - a. When the children have completed their research on the kahuna. direct their attention to the medical kahuna.
  - b. Talk about how the people of Hawai'i take care of medical problems today. Identify some of the common problems today that need medical attention. Write these on a wall chart in one column.
  - Ask: How did the early Hawaiians take care of these same problems? Did they have kahuna who took care of each problem or did one kahuna take care of everything?
  - Read from Early Hawaiian Life, p. 238 and introduce the medical specialty areas. Teach the Hawaiian equivalents.



· •	•	
	_	
	e.	Ch Ch ag wo li
	f.	Te in ci pi
•	g.	En iz
	h.	Ha ab th ve us wo Us re
2.	pla Han The hav por	

Husic

- chant the "Ho'okupu Chant"for them, encouraging them to mouth the words as you chant and listen for similar patterns in the chant.
- f. Teach the chant listen-. ing for accurate pronunciation as well as pitch.
- g. Encourage them to memorize the chant.
- h. Have the children think about activities of the Makahiki. Encourage them to create a second verse for the chant using as many Hawaiian words as they can recall.

  Use the kupuna as a resource person for translations.
- 2. Contemporary songs about plants and flowers of

There are many songs that have been written by contemporary composers about the plants and flowers that were so useful to the early Hawaiians. Many of the flowers are compared to the beauty of loved ones. Some

ART

3 lengths of 20" long sennit ('aha) coconut fiber for the ball large needles

- coconuts cut in half wire brush instruments to remove flesh sand paper to smooth the outside
- Construct a <u>Makahiki</u> pole banner called an <u>akua loa</u> or <u>Lono Makua</u>.
  - a. Materials needed are:
    - Two long bamboo poles.
    - 2) Two lengths of white muslin or the children may pound kapa using bark of wauke (paper mulberry), or 'ulu (breadfruit).
    - 3) Feather pelts of birds; e.g. pheasant.

GAMES AND RECREATION

- 3. Participate in skillbuilding games found on
  pp. 28-43. Implements
  for these games are
  available in stores.
  Bishop Museum, district
  artifacts kits, Academy
  of Arts, or can be made
  by the children.
- 4. Teach the games for quieter moods in Mitchell's book pp. 55-66. Excellent instructions are given for each game. There are also clear instructions on how to make the material needed for some of the games. These implements can be made in art.
  - E.g.: Making the stem and drilling the hole for the kukui nut spinning top game called hu.

    Coconut bowls for kilu.

    Making the coconut loop and ball for pala'ie.
- 5. Organize the games so that competitive contests can be held after the children have learned the games.

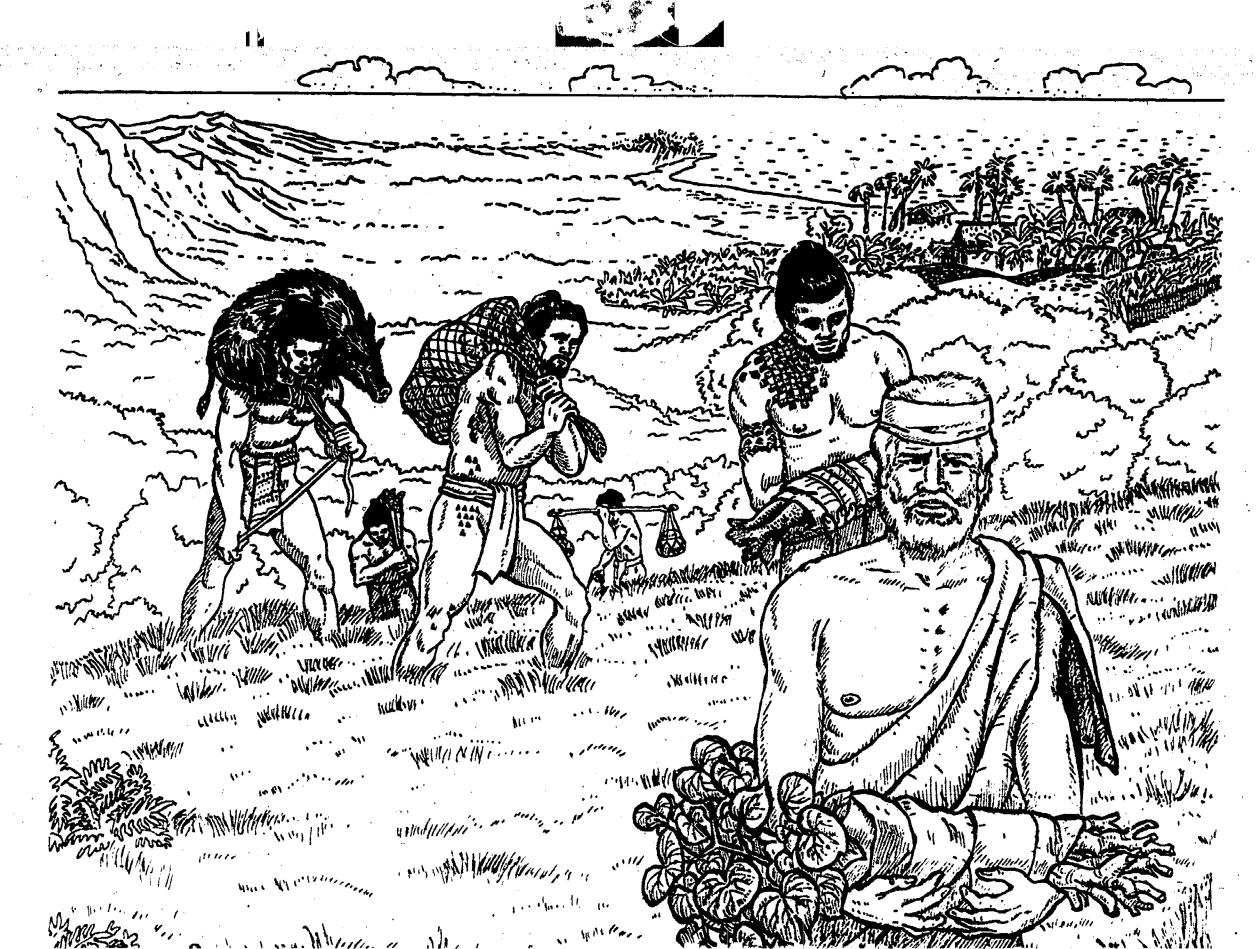
SCIENCE	LANGUAGE ARTS	HEALTH
e. What will the leaves look like if there is no sun?	d. How many do different cultures have today?	8. Read Malo. <u>Hawaiian Antiquities</u> , pp. 107-109 to the children.
11. Experiment with changes in environment.	e. Do all people believe that God created humans?	These pages describe  a. The treatment of the sick.
♦	f. What do some scientists believe?  g. Why then were legends written or created?	b. The diet of a sick patient  c. The steps involved in the treat-
	6. If this lesson is being conducted during the months of October, November, December, or January,	d. The religious ceremonies, the process.
	(these are the months of the early Hawaiian Makahiki or "harvest festival" which was a festival in honor of the god Lono) plan to hold	See: pp. 109-111 for religious prayers chanted during the treatment of diseases.
	a <u>Makahiki</u> in your school consisting of <u>hula</u> , Hawaiian games, and the reenactment of the coming of Lono to each <u>ahupua'a</u> .	9. Discuss the life of the early Hawaiians and how they were so sensitive to their environment; how they utilized their environment to meet their needs.
	a. Inquiry:  Display the picture of the Lono pole in Early Hawaiian Life,	10. Talk about the <u>kahuna lā'au lapa'au</u> - the herbal doctor.
	p. 87. Ask:	a. Ask: What do you think the <u>kahuna</u> <u>lā'au lapa'au</u> used to cure some of the medical problems on our chart.
n	<ol> <li>What do you suppose this was used for?</li> <li>How was this made - materials,</li> </ol>	b. Discuss a few of the problems and have them make predictions based on their knowledge of the Hawaiian plants.
•	method of attachment?  3) What kinds of things can you tell me about the Hawaiians	c. Read about some of the medical practices of the kahuna Ja'au lapa'au in Gutmanis.
332 RÍC	just by looking at this picture?	d. Have the children dramatize the role of the kahuna in curing
		, 333

Music	ART	GAMES AND SPORTS
of these songs that can be taught are:  a. "Pua Aloalo" (hibiscus)  b. "Pua 'Ōlena" (turmeric)	4) Wooden block from which Lono's head will be carved.  5) Ferns - woven or braided	6. A few performers may be picked for demonstrations in an all-school Makahiki celebration or Hō'ike.
c. "Pua <u>Kukui</u> " (candlenut)  d. "Nā <u>Hala</u> o Naue"	b. See: <u>Early Hawaiian</u> Life, p. 87 for picture of Lono pole or Appendix V <sup>C</sup> -B, pp. 174-175.	
e. "Lei 'Ilima" (flower representing O'ahu)  See Hausman: Hawai'i Music in Its History, pp. 62-63	3. An art lesson can be done using the health lesson on illnesses. Have the children select one illness such as a person with a sore on the arm.	<b>\'</b>
f. "Sweet Leilehua," (flower representing Hawai'i) Hausman. pp. 42-43	a. The child will draw the arm with a sore on it on the top half of a 12" x 18" sheet.	
g. "Makalapua," Hausman: pp. 76-77.  The words underlined in the above list represent the flower in the song/title or the tree as in d.	b. On the bottom half, he/she will get the part of the plant that was used to cure it and scotch tape the entire leaf, flower, etc., to the sheet.	
	c. Briefly describe the preparation of the herbal cure.	
334		

	SCIENCE			LANGUAGE ARTS	HEALTH
	<del>.</del>			4) What are some of your questions about this festival?	something like the <u>ma'i hēhē</u> (boil). Remind them of the use of rituals.
<u>;</u>			b.	Record their questions on a chart.  Read and research the Makahiki Festival in:  1) Appendix Unit V <sup>C</sup> -B, pp. 174-175	e. See also:  Aloha Council. <u>Hawaiiana</u> , pp. 54-97  Akana. <u>Hawaiian Herbs of Medicinal</u> <u>Value</u>
·.				2) Curtis. <u>Life in Old Hawaii</u> , pp. 157-186	<u>Culture Studies: Hawaiian Studies</u> <u>Project</u> Data Cards
	•			3) Dunford. <u>The Hawaiians of Old</u> , pp. 51-53, 142, 154	f. Encourage the children to ask their parents for medicinal cures as they remember them. Encourage them to
•				4) Handy. Native Planters in Old Hawai'i, pp. 329-338.	compile their findings in a booklet.
			c.	5) Malo. Hawaiian Antiquities, pp. 77, 143-151 Using Curtis' book, read and discuss pp. 157-186 together with the children.	11. Compare the Hawaiian medicines with those of other cultural groups. Learn the Hawaiian names of the plants and begin to identify new plants.
·		•	,	Questions to answer:	Illness Hawaiian Chinese Japanese
	<b>,</b> .			1) What was the purpose of the early morning swim?	debility Make a tea of the of tin kung chow/laukahi
				2) What kinds of gifts were given to Lono?	leaves leaves
		••		3) Describe the pole.	12. Invite herbalists from different
	•			4) What were the men wearing?	cultural groups to talk about medicines.
	336	•		5) What happens to all the gifts?	13. Visit a Ch. — pharmacy in Chinatown or elsewhere and have the pharmacist discuss different medicines.

				Grade 4, Unit V <sup>C</sup>
	Music	ART	GAMES AND RECREATION	
		E.g.    May be a ma' i hehe		
ERIC Patter Fronting 100	338	165		339

SCIENCE	Language Arts	HEALTH
	6) What are some of the activities that took place during these early <u>Hawaiian Makahiki</u> ?	14. As new discoveries are made, add them to the chart. Encourage the children to ask older folks about old cures. Record these and make a booklet for
	d. Compare the <u>Makahiki</u> Festival with those of other cultures.	the class.  15. Hand out copies of Appendix Unit V <sup>C</sup> -C,
	e. Have the children decide on the committees needed to plan for a Makahiki Festival.	pp. 176-177. As the research continues have the children fill in the blanks with the correct way of preparing the correct part of the plant for curing the ailment pictured.
	E.g.:  Decorations Props Invitations Script Program Staging	See also Appendix Unit IV-B, pp. 98-105 for additional information about key plants and their uses by the early
	f. Have them select the committee on which they would like to serve. Stress the bhana concepts.	Hawaiians.  16. Introduce ho'oponopono - the Hawaiian system for "making right the wrong".
	g. Encourage them to use positive communication techniques with each other.	See: <u>Early Hawaiian Life</u> , pp. 225-227.  a. The <u>kahuna lapa'au</u> always asked a sick patient if ho'oponopono
	h. Final presentation may be given to the whole school as a <u>hō'ike</u> .	had been conducted to cleanse the inner self. Only then would the physical malady be treated.
		b. Practice using this system daily to solve problems in the class.
		c. For more information about ho'oponopono, see Pūku'i. Nānā I Ke Kumu, Vol. I, pp. 60-70.
340		2.44





## SCIENCE

Studying early Hawaiian birds whose feathers were used to make featherwork

The po'e kawili, feather gatherers of early Hawai'i were trained very early in life to be good at their jobs.

- 1. Discuss the following:
  - a. What did the po'e kāwili have to know about the birds?
  - b. What did they teach the young people who were training to be po'e kawili?
  - c. Have you ever watched birds?
  - d. What kinds of things have you observed?
  - e. How many feathers can you pluck from one bird without endangering its life?
- 2. Read: Dunford. The Hawaiians of Old, pp. 123-126
  Encyclopedias about birds
  Handy. Ancient Hawaiian Civilization, pp. 135-139
  - a. Have each student do a week of bird watching. Have them select a type of bird to watch. Look for eating habits, songs they sing, area they live in, when they're most active.

## LANGUAGE ARTS

- Reading and discussing legends and stories about early Hawaiian featherwork.
  - 1. See: Early Hawaiian Life, p. 127 for additional language arts activities.
- 2. Study the Hawaiian vocabulary below:

'ahu'ula cane, cloak) kā'ei kapu (sacred sash) kāhili feather standard) kahu hulu caretaker of feathers) mahiole (helmet) nae (net backing) pā'ū o Nā-(skirt of 'o'o feathers hi'ena'ena made for !lahi'ena'ena, daughter of Kamehameha I) po'e kawili (bird catchers)

- 3. Have the children recall the story of 'Umi in <u>The Eight Rainbows of 'Umi</u> by Ku'ulei Ihara.
  - a. Talk about the three symbols of royalty he took with him to seek out his father King Liloa.
    - 1) Lei niho palaoa (whale tooth pendant)
    - 2) Malo (loin cloth)
    - 3) Lā'au pālau (war club)
  - b. Show the children a picture of the feather sash and/or take them to the Bishop Museum to see it.

## HEALTH

- The ali'i was a kapu figure of early Hawai'i. The kapu that surrounded him made it impossible for the maka'aimana to have much visual contact with him.
  - 1. \Discussion

Have the children share their feelings of how they think they would feel if they heard that the ali'i was coming to their kauhale.

- 2. Show the children colored pictures of the ali'i dressed in their feathered finery. Have them imagine an enturage of ali'i entering their village and have them share how they would react.
- 3. Have the children recall Kamehameha or Aloha Week parades they have seen recently. Have them share their feelings based on today's culture and tell why the differences or similarities.

ERIC

Teach the children "Koa'e E" after talking about the bird and its habits.

Unit V<sup>C</sup>-D, pp. 178-179 for a

picture of the koa'e bird.

Have the children look into

references for pictures of

the native Hawaiian birds to

see the colors of the birds.

Source: <u>Hawai'i's Folksingers</u>, LP Tradewind Records, Leo Nahenahe Singers.

2. "Manu 'O'ō" describes the honey-eater 'Ō'ō as it sips the lehua nectar from the blossoms.

See Elbert and Māhoe. Nā Mele o Hawai'i Nei, p. 77. ART-

See Early Hawaiian Life, p. 126 for art activities.

• Making featherwork is truly a high level skill. The following activities will build an appreciation of the effort and hard work involved in the featherwork of early Hawai'i.

There are many resource people available in the community who can demonstrate and teach a variety of crafts. Send home a questionnaire sheet and ask the parents what their talents are and if they are willing to share them.

- 1. Use DOE/OIS Resource Units in Hawaiian Arts and Crafts.
  - a. Pp. 62-66 Kaula hau rope made from the inner bark of the hau tree.
  - b. Pp. 106-119 feather-work.
- 2. Go on a field trip to Queen Emma Summer Palace to see the feather <u>lei</u>, <u>kāhili</u>, and other adornments of Queen Emma, wife of Kamehameha IV.
  - a: Have the children think about the symbols of

**MATHEMATICS** 

• Counting feathers in early Hawaii might have been done in a base 4 system of counting.

The following inquiry lesson allows the children to make inferences about how one was rewarded for gathering and giving feathers to the ali'i. Was it by the number of feathers? If so, how were they counted?

- 1. See Ihara. Research
  Materials, Bulletin Number
  16, available in all school
  libraries and Bishop Museum
  (Appendix Unit V<sup>C</sup>-E,
  pp. 180-181).
- 2. Ask:
  - a. How do you suppose the Hawaiians counted the number of feathers needed to complete a particular feathered article?
  - b. Since only the ali'i were allowed to wear these symbols, what does that tell you about the value of feathers?
- 3. How important then, is the accurate counting of feathers?
- 4. Show the children the practicality of counting by this

- GAMES AND RECREATION
- The following game can be taught to the children as the game reserved only for the ali'i. It can be used in the Makahiki Festival. (See language arts plan, pp. 162-154, 166.
  - 1. Shooting an 'iole (rat) with a bow and arrow was a sport engaged in only by ali'i.
    - a. Have the children infer what these bows and arrows may have been made of.
    - b. Encourage them to follow through with some research.
    - c. Make the bows and arrows, including the 'aha (sennit) for tying.
    - d. Set up a moving target and have them practice using a harmless arrow.
  - 2. Play act this game in the Makahiki.

Grade 4, Unit V<sup>C</sup> LANGUAGE ARTS HEALTH SCIENCE c. Have them infer the number of b. Have them also do research on birds it took to make the yellow their birds in books. part of the kaei kapu and how long it might here taken to gather the c. Have them take pictures or draw yellow feathers: pictures and find out interesting facts about the usefulness of their d. Have them write a paragraph birds. describing how 'Umi felt just d. Plan a sharing session so they can before he ran into his father's court to tell him that he was all display their findings and Liloa's son. Have them use the share the interesting points of Hawaiian vocabulary they learned their bird. in earlier lessons such as maka'u (scared).

			i e e e e e e e e e e e e e e e e e e e		Grade 4, Unit V <sup>C</sup>
	Music		ART	MATHEMATICS	MATHEMATICS
	,		royalty needed for the Makahiki as planned in language arts on p. 168.	method by demonstrating why the Hawaiians used this method to count fish. Ask: Do you think that this method was practical for counting feathers?	Have the children count objects in Hawaiian using this early Hawaiian system.
				(4) 4 ones = 1 kauna (40) 10 kauna = 1 ka'au (400) 10 ka'au = 1 lau (4,000) 10 lau = 1 mano (40,000) 10 mano = 1 kini (400,000) 10 kini = 1 lehu (4,000,000) 10 lehu = 1 poina (40,000,000) 10 poina = 1 nalowale	
		•	·	etc.	
				5. It should be pointed out that these words have other meanings that relate to quantities or amounts.  Mano also means "many, numerous, thick"; kini means "multitude, many"; lehu means "numerous, very many":	<
·	·			and <u>lehulehu</u> means a "crowd"; <u>poina</u> means "to forget"; <u>and nalowale</u> means "lost, forgotten." These two latter number names refer to the immensity of the quantity that it cannot be remembered.	
				<ol> <li>Share some of the stories from:</li> <li>Appendix Unit V<sup>C</sup>-E, pp. 180-</li> </ol>	
•		350		181.	351





Nā Haku Mele:

Composers: F. Ichinose, J. Holden, E. McClellan V.M. Rosehill, C. Harbottle

Hele mai e nā kānaka

Lawe mai i nā makana

Hele mai, hele mai

Makana no Lono

Lono ke akua o ka mahi'ai

Hele mai, hele mai

Kalo, lū'au, kukui, ko

Mai'a, 'uala, 'ulu, niu

Hulu 'ula'ula, hulu melemele

I'a, 'upena, kapa, ipu

Lau hala, palapelai.

Come, people

Bring the gifts

Conie, come

Gifts for Lono

Lono, the god of farming

Come, come

Taro, young leaves, kukui, sugar cane

Bananas, sweet potato, breadfruit,

coconut

Red feathers, yellow feathers

Fish, nets, tapa, gourds

Pandanus leaves, ferns.

Reprinted with permission of the Kamehameha Schools/Bishop Estate.

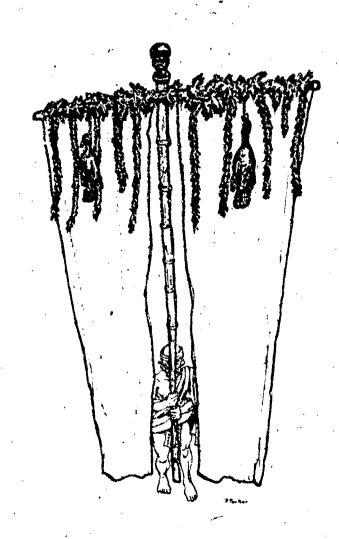
SLAS 4, Appendix Unit V<sup>C</sup>-A



# AUMAKUA

## KA MAKAHIKI

by Mahealani Pescaia



Many people have celebrated a harvest festival. In Hawaii this was the <u>Makahiki</u>, literally "The-arrival-of-the-beginning" for it began with the New Year about the time of our October. During this four months' holiday, Lono alone of all the great gods was worshipped, for he was god of agriculture, god of the "over looking cloud" which watered crops. Because he was also god of peace, there was no war during <u>Makahiki</u>.

To give concrete expression of their thanks for prosperity in the year just past, every family prepared gifts - vegetable food, mats, kapa (tapa), nets, bowls, bunches of feathers - any good thing they had raised or made. At the beginning of the festival the kahuna (experts, in this case, priests) prayed to the god Lono to send his spirit into a carved figure atop a strong pole. This pole was carried around the island to receive the gifts. From a crosspiece below the carving hung white kapa and other decorations such as birds and lei. Lono, the spirit residing in the carving, was carried around the island starting from the village of the ruling chief and proceeding around the island with the ocean on the left. In each district gifts were heaped before Lono - the gifts of every family in the district. After a prayer of thanks to the god, the pole was lowered and carried horizontally to the border of the next district where it was raised upright to receive more gifts. Meanwhile those gifts already given were carried to the village of the ruler who was considered the god's earthly representative. He distributed the goods among all chiefs according to rank. Some modern writers have spoken of this as tax collecting. It was that, but it was far more for it was infused with deep religious meaning.

When Lono had made a circuit of the island, the ruler went out in his canoe. By catching one fish he lifted the ceremonial kapu (tabu) against fishing which had continued while Lono journeyed. He returned to find his warriors drawn up as a guard about Lono. As the chief leaped from his canoe, he was greeted by one of the warriors who came running at him with two spears in his hands, both covered with white cloth at its tips. He hurled one of the spears at the chief but it was warded off by one of the chief's own men who was an expert in warding off spears. With the other spear, the warrior touched the chief with it. Later that afternoon the chief paid his respects to the Makahiki god, Lono-makua. Ceremonies and games marked the return of lono to the village of the ruling chief. Among these was the shaking of the "net of Makali'i or Maoloha." The net was filled with food of all sorts such as taro (kalo), sweet potato (uala), bread-fruit (ulu), bananas

(mai'a), and coconut (niu). It was lifted by four men, one at each corner, and shaken so that the foods dropped through the meshes. If the foods did not drop through, the kahuna announced that there would be famine in the land. But if the foods dropped through the net, this was a sign of plenty.

At last the Lono pole was returned to its resting place in the <a href="heiau">heiau</a>, or temple. Lono was no longer in the little carved figure, but journeyed over the many-colored sea to his own is land in the deep-blue of heaven. A little canoe was launched to accompany the god. The basket lashed between the canoe and outrigger was loaded with food for his journey.

Meanwhile in every district, games, hula and feasting followed the gift-giving. Makahiki was the great four month holiday of the year.

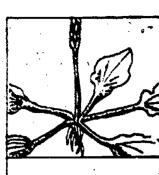
References: Handy, E.S. Native Planters of Old Hawai'i. Honolulu, Hawai'i: Bishop Museum Press, 1972, pp. 329-388.

Malo, David. Hawaiian Antiquities. Honolulu, Hawai'i: Bishop Museum Press, 1976, pp. 141-159.



# Leprinted with permission of The Kamehameha Schools/Bernice P. Bishop Estate.

## MEDICINAL PLANTS OF HAWA'I



Laukahi



(Hibiscus) Pua Aloalo



'Ohi'a'ai (Mountain Apple)



Popolo Leaves



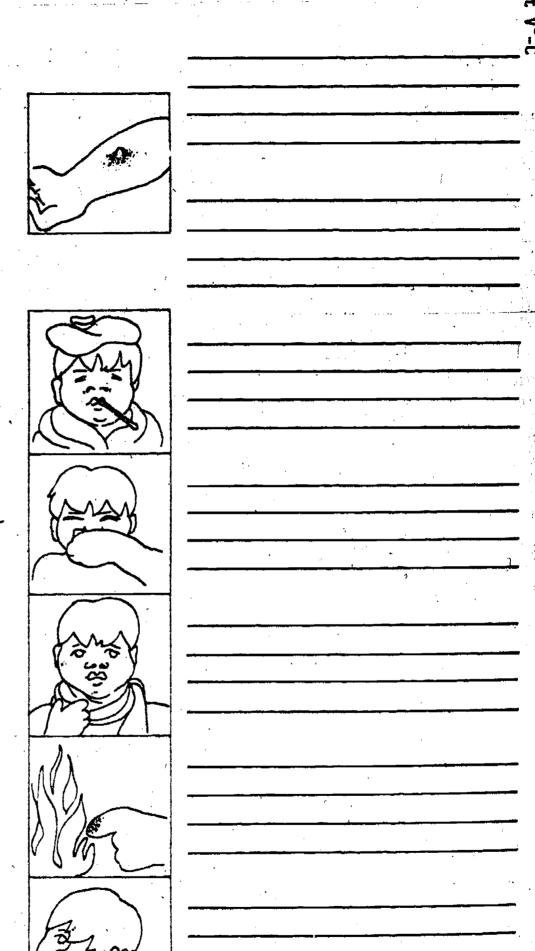
(Guava) Kuawa



'Aloe/aloe

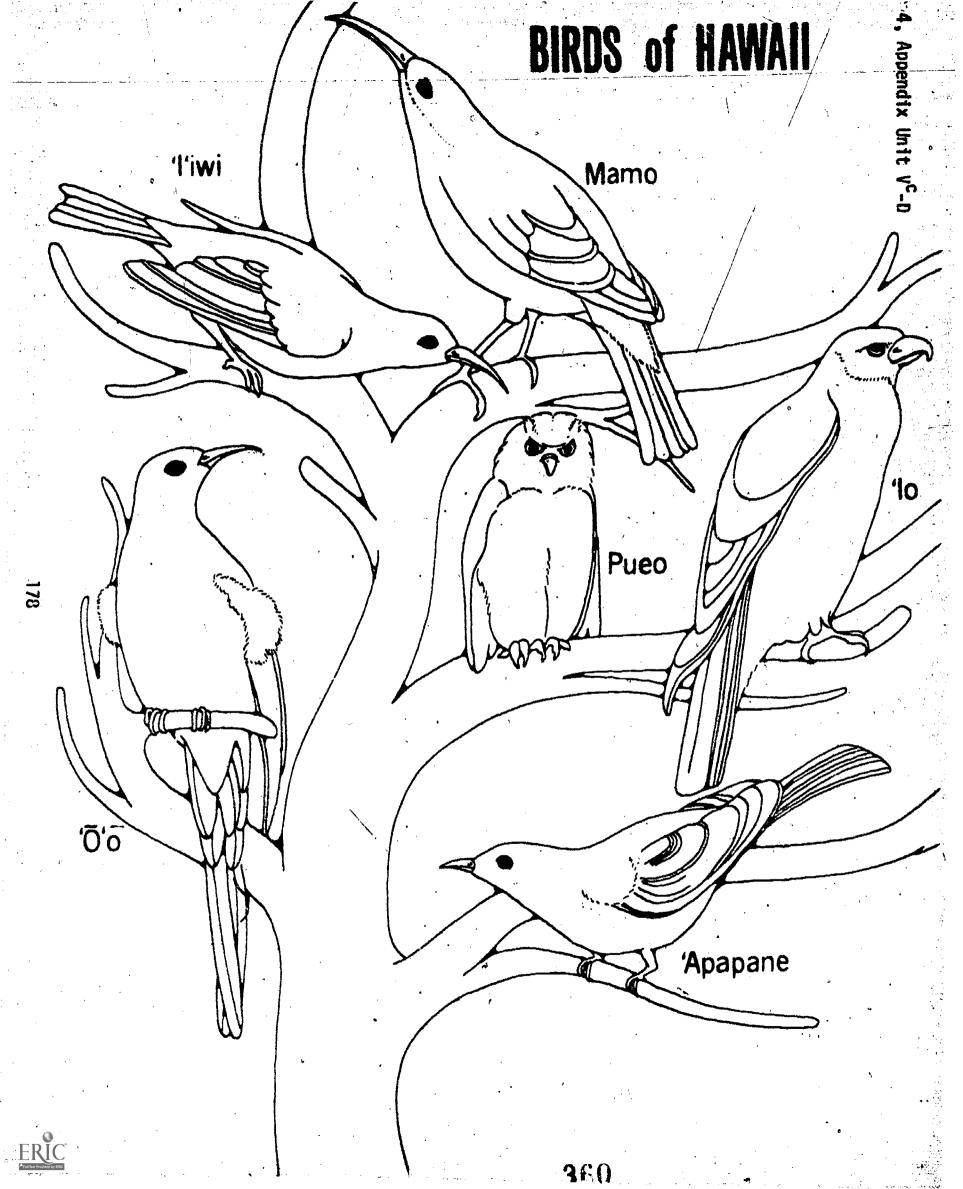


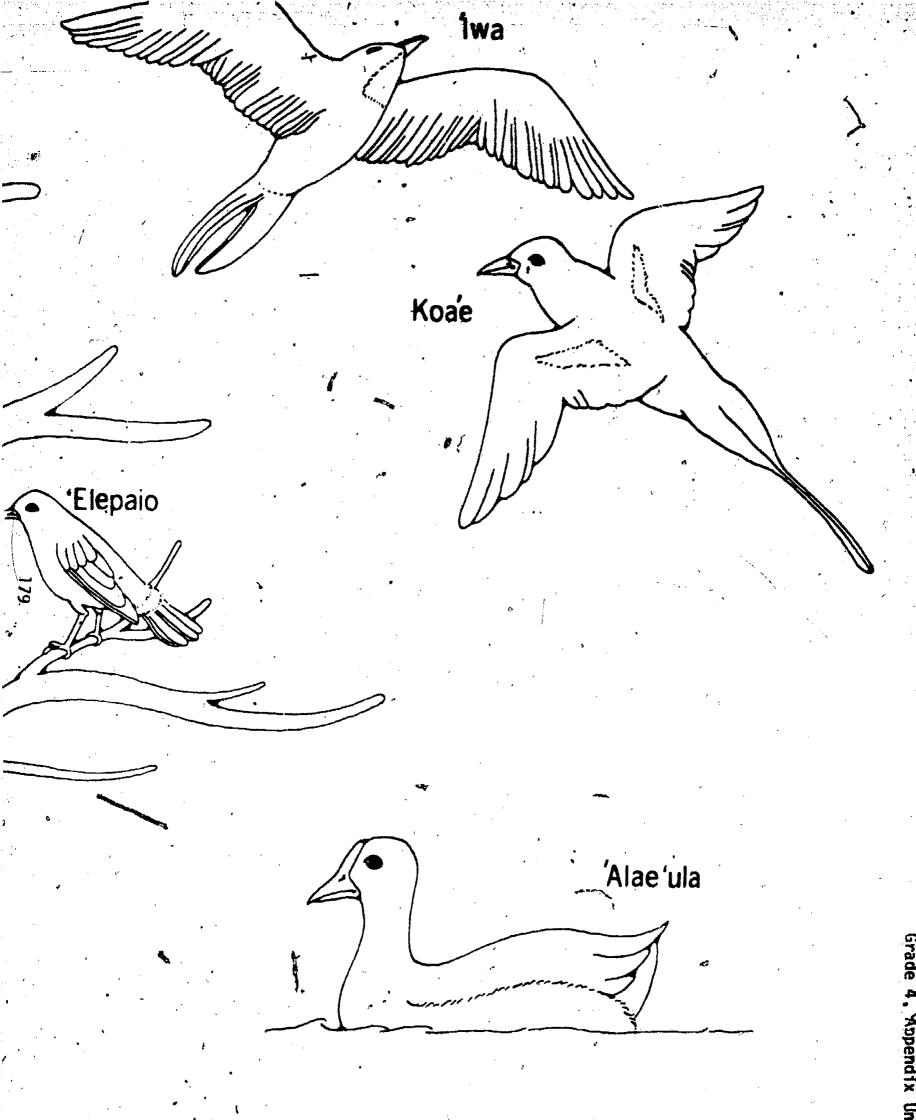
'Ōlena



ERIC

de 4, Appendix Unit V<sup>C</sup>





ERIC Full Text Provided by ERIC

## KA HELU HAWAI'I -- HAWAIIAN ENUMERATION

The following "letter-to-the-editor" written in Hawaiian appeared in the January 21, 1867 issue of the Hawaiian newspaper, Ke Au 'Oko'a. The letter was translated from the Hawaiian by Mrs. Mary Kawena Pūku'i, emeritus associate in Hawaiian culture at the Bishop Museum.

This letter gives the example of how the Hawaiians also placed their numbers in units or groups, much like in the "new math" of the present day. The number four (4) was used for a very practical reason. A fisherman could hold four (4) fish by their tails, between the five (5) fingers of each hand. The farmer could also hold four (4) taro plants (huli) between the five (5) fingers of each hand. In the publication <u>Hawaiian Herbs of Medicinal Value</u> by Akaiko Akana, the instructions for compounding many of the remedies show much use of the number four (4) or multiples of four (4).

"In the old way ofer\_me ating here in Hawaii, four ones make a <u>kauna</u>, and after that it multiplies by four times ten with their names like this:

4 ones make a kauna	-	4	10 mano make a kini	<b>-</b> ,	40000
10 kauna make a ka'au			10 kini make a lehu	_ `	400000
10 ka'au make a lau	-	400	10 lehu make a poina	-	4000000
10 lau make a mano	, <del>-</del>	4000	10 poina make a nalowale	-	40000000

and so on as usual.

"Our ancestors did not use the counting system of today that goes up to a hundred and so on. At the market at 'Ulakoheo and other places of trade, men and women and children are used to counting like that given above, for most of the fishermen are old men and those who buy are the young ones who have learned to count one by one to tens of thousands and so on, but cannot use their system lest the old folks do not understand.

"A few years ago, perhaps between 1860 and '63, E. Kuhia sent his servant from Maunalua with some fish, awa fish, a lau and about nine kdau, for the king, who was living in Honolulu. He was not the king at that time. When the fishermen arrived at the chief's house, the chief asked, 'What have you?' 'I have fish from E. Kuhia, awa fish.' The chief asked again, 'Now much fish?' The man answered, 'One lau and nine kdau.' 'How much fish?' asked the chief again. 'How much fish?' he repeated, and the man answered the second time. The chief asked for the third time in the same words and was almost angry. Then the man changed it to the haole way of counting that was commonly taught in schools and said to the chief, 'Seven huncred and sixty fish.' When the man answered that way, he ceased to question for he was asking in modern terms and the man answered by the old count, like that given above.



## Ka Helu Hawai'i--Hawaiian Enumeration Page 2

"On the 31st day of December, 1866 while I was at the house of the Honorable person, the lover of chiefs, lover of the chiefs of Hawai'i-of-the-green-back, we discussed lands for leasing and while in the midst of it, a man at ived. Mr. Kekuanao'a asked him, 'What have you?' The man replied, 'I came to report the number of taro stalks for planting.' The chief asked, 'How many lau?' The man replied, 'I don't know how to count in Hawaiian.' Because the chief was still puzzled, he asked me, 'How many lau are there of the taro stalks he is talking about?' I said, 'Three lau, two ka'au and five kauna.' The chief said to the man, 'Why do you desert the old system of counting of our land? Why not do it in the new way and in the old way both? That was why I said to R. Armstrong not to stress the English and desert the Hawaiian speech. It was at a meeting at Kaumakapili in the year 1855, in the month of April, perhaps; there was a Christian Temperance Union meeting followed by a feast at the old palace.' So said the chief. The chief reminded me how the teachers do not teach the children the Hawaiian way of enumerating, as given above, and said, 'They are taught to memorize measures and multiplications and the system is found in the counting of our children.' The chief then ceased talking on the subject.

"Therefore, the way of counting which I am telling to the public is one much used by fishermen who catch flying fish, traveling mullet, mullet, and so on. They use the system mentioned above but very few counts go into the mano and kini because there has not been that many fish caught. If in the government building, clothing stores or other stores perhaps, they do not count in the old way but use the system of today. This I have to explain to you. May the patience of the editor and the printers place this parcel on our news bearers, the Au 'Oko'a."

J. H. Kānepu'u Pālolo

Ø

Ihara: Research Material's Bulletin Number 16



The lessons in this unit were developed to accompany the lessons found in the 4th grade social studies guide, Early Hawaiian Life, pp. 130-147, Grade 4. Unit VI

CONTENT AREAS

**EMPHASES** 

SOCIAL STUDIES

Identification of the food plants of early Hawai'i

Kalo - taro

Niu - coconut

'Uala - sweet potato

'Ulu - breadfruit

Pia - arrowroot

Hai'a - banana

'uhi - yam

Preparation of food

Methods of cooking

Utensils used

Roles played by men, women, and children

Kapu for men and women

Ohana concepts

- sugar cane

Cultivation of <u>kalo</u>
Importance of the <u>kalo</u>
Steps in planting
Preparation of <u>poi</u> (early Hawai'i and today)

Food sharing (exchange) system of early Hawai'i

## LEARNER OBJECTIVES

## APPENDICES

See: Early Hawaiian Life, pp. 135-136, for more objectives.

- Names many of the foods eaten at a Hawaiian <u>lu'au</u>, or <u>pa'ina</u> and indicates why they were and are important nutritionally.
- Identifies all of the plants brought to Hawai'i by the Polynesians.
- Discusses how common Hawaiian foods are grown or produced and acquired.
- Describes some early cooking methods which are still in use.
- Discusses some of the differences in cooking methods available to the Hawaiians of former times and to people in modern Hawai'i.
- Discusses the kinds of plants that were grown in the different environmental zones from the seashore to the mountains.
- Discusses some of the beliefs and kapu connected with planting.
- Explains some of the aspects of the <u>kapu</u> system as it related to eating and food.
- Describes, using the food exchange system within the <u>ahupua'a</u> as a case study, how <u>'ohana</u> and community members were dependent upon one another in Hawaiian society during former times.
- Discusses the food exchange system, the necessity for cooperation and working together on individual projects such as home-building, and the pulling together of the community in large numbers to provide labor for the chiefs and konuhiki for large-scale projects. (kokua, laulima, alu like, lokahi)
- Recognizes that the Hawaiian food exchange system was based on sharing and giving and receiving, instead of trade or barter, which stemmed from motives of practicality, sympathetic interest in general welfare of the scattered 'ohana and as a matter of self-respect.
- Explains using both early and modern Hawai'i as a case study, how economic resources are allocated and utilized to satisfy the people's basic needs and wants.



## CONTENT AREAS

## **EMPHASES**

SCIENCE.

Differences and similarities in farming methods
Early Hawai'i vs. Modern Hawai'i
Kalo vs. Watercress

Scientific knowledge involved in early Hawaiian and modern Hawaiian agriculture

Importance of <u>wai</u> (water) to the early Hawaiians and today's communities in Hawai'i is reflicted in the:

Development of communities

Development of conservation techniques

Continuous study of the hydrologic cycle in Hawai'i

LANGUAGE ARTS

Creative writing - Poetry dealing with the Cultivation of kalo (taro)
Appreciation of wai (water)

Place names - Studying the importance of
Place names that begin with "wai" or have "wai" in them
Places where "wai" is located



## LEARNER OBJECTIVES

APPENDICES

- Describes how the <a href="logical-valley-environment">10'i kalo</a> terracing system was established in a typical valley environment.
- Discusses the importance of water to the Hawaiian mahi'ai (farmer) in pre-contact times.
- Explains some of the problems that modern day kalo farmers are facing that were not faced by most farmers in former Hawaiian times.
- Recognizes the fact that the Hawaiians cultivated many different species of kalo (taro) and discusses some of the reasons why so many different types might have been developed by Hawaiian farmers.
- Compares a day in the life of a Hawaiian farmer or fishers in former times with that of a modern farmer or fisher.
- Relates how the Hawaiians adapted foreign materials and technology to their needs when these things became available.
- Describes the way of life of the early Hawaiians as a result of adaptation to the environment.

(See <u>Science in Hawaii</u>, <u>A Fourth Grade ETV Guide</u>, pp. H1, H2, and K1 for concepts and objectives dealing with "Hawai'i's Water Resources" and "Science and Technology of Crop Production.")

- Relates how aspects of the natural Hawaiian environment provided images and topics for the composers of Hawaiian poetry (mele)in former times and even today.
- Writes prose or poetry in English, using Hawaiian words and expressions where appropriate, expressing the student's feelings about Hawai'i, Hawaiian food, music, dance, people and history.
- Researches and reports information concerning natural, legendary, and/or historical events which have been commemorated with place names.

Unit VI - A "Maika'i, ilahı'ai," pp. 196-197



Medicinal value of Hawaiian plants	Grade 4. Uni	t VI	
Early Hawaiian uses Hodern day uses by various ethnic groups  Illnesses of the early Hawaiians and of the Hawaiians today  Creative compositions Lyrics written by the children and taught by them using the 'ukulele, autcharp and/or guitar  Songs about wai (water)  "Alekoki"  "Hanohano Hanalei"  "Kākohi"  "Na Ua Loku"  "Kākohi"  "Na Ua Loku"  "Kākohi"  "Nai O Ke Aniani"  Early Hawaiian arts and crafts using Hawaiian plants Laii, Ki - ti leaf, ti plant Kūkui - candlenut.  3-D art using the collage or diorama approach Water color painting		CONTENT AREAS	EMPHASES -
MSIC  Creative compositions Lyrics written by the children and taught by them using the 'ukitele, autcharp and/or guitar  Songs about wai (water) "'Alekoki" "Hanohano Hanalei" "Ka Ua Loku" "Kokohi" "Old Plantation" "Wai O Ke Aniani"  Early Hawaiian arts and crafts using Hawaiian plants Laij, Ki - ti leaf, ti plant Niu - coconut Kukui - candlenut 3-D art using the collage or diorama approach Water color painting	HEALTH		Early Hawaiian uses
Lyrics written by the children and taught by them using the 'ukitele, autcharp and/or guitar  Songs about wai (water)  "Alekoki"  "Hanohano Hanalei"  "Ka Ua Loku"  "Kokohi"  "Old Plantation"  "Wai O Ke Aniani"   Farly Hawaiian arts and crafts using Hawaiian plants  La'1, Ki - ti leaf, ti plant  Niu - coconut  Kukui - candlenut  3-D art using the collage or diorama approach  Water color painting		•	Illnesses of the early Hawaiians and of the Hawaiians today
Lyrics written by the children and taught by them using the 'ukitele, autcharp and/or guitar  Songs about wai (water)  "Alekoki"  "Hanohano Hanalei"  "Ka Ua Loku"  "Kokohi"  "Old Plantation"  "Wai O Ke Aniani"   Farly Hawaiian arts and crafts using Hawaiian plants  La'1, Ki - ti leaf, ti plant  Niu - coconut  Kukui - candlenut  3-D art using the collage or diorama approach  Water color painting			
Lyrics written by the children and taught by them using the 'ukitele, autcharp and/or guitar  Songs about wai (water)  "Alekoki"  "Hanohano Hanalei"  "Ka Ua Loku"  "Kokohi"  "Old Plantation"  "Wai O Ke Aniani"   Farly Hawaiian arts and crafts using Hawaiian plants  La'1, Ki - ti leaf, ti plant  Niu - coconut  Kukui - candlenut  3-D art using the collage or diorama approach  Water color painting		•	
Lyrics written by the children and taught by them using the 'ukitele, autcharp and/or guitar  Songs about wai (water)  "Alekoki"  "Hanohano Hanalei"  "Ka Ua Loku"  "Kokohi"  "Old Plantation"  "Wai O Ke Aniani"   Farly Hawaiian arts and crafts using Hawaiian plants  La'1, Ki - ti leaf, ti plant  Niu - coconut  Kukui - candlenut  3-D art using the collage or diorama approach  Water color painting		**************************************	
ART  Early Hawaiian arts and crafts using Hawaiian plants  La'i, Ki - ti leaf, ti plant  Niu - coconut  Kukui - candlenut.  3-D art using the collage or diorama approach  Water color painting	Music	•	Lyrics written by the children and taught by them using the 'ukulele, autcharp'
"Kökohi" "Old Plantation" "Wai O Ke Aniani"  Early Hawaiian arts and crafts using Hawaiian plants  \[ \frac{La^21}{Ni}  \frac{Ki}{l} - \frac{ti}{l} \] leaf, \( \frac{ti}{l} \) plant  \[ \frac{Niu}{Kukui} - \text{candlenut}. \]  3-D art using the collage or diorama approach  Water color painting		· · · · · · · · · · · · · · · · · · ·	"'Alekoki" "Hanohano Hanalei"
La'i, ki - ti leaf, ti plant Niu - coconut Kukui - candlenut.  3-D art using the collage or diorama approach Water color painting  374			"Kōkohi" "Old Plantation"
3-D art using the collage or diorama approach. Water color painting	ART	0	La'i, Ki - ti leaf, ti plant Niu - coconut
ERIC 375			3-D art using the collage or diorama approach
	ERIC	374	186

## LEARNER OBJECTIVES

## APPENDICES

• Classifies, within a Hawaiian, scientific, or some individual taxonomy, flora and fauna found during nature study excursions in the different environmental zones on the islands from the beach areas to the uplands.

Unit VI - B Worksheet - Medicinal Uses of Plants, pp. 198-199

- Describes the way of life of the early Hawaiians as a result of adaptation to the environment
- Describes the ethnobotanical uses of plants by the Hawaiians including food, medicine, dyes, shelter, tools, weapons, ornaments, religious and social rites.
- Practices behavior that illustrates respect for self, schoolmates, teachers and community resource people.
- Contrasts factors in the local environment which presently affect health and safety with factors that existed in the environment in former times.
- Creates melodies and lyrics concerning a Hawaiian theme using English and Hawaiian words, expressions, and phrases.
- Sings selected Hawaiian songs introduced by the teacher while playing rhythmic instruments.
- Works with partners or groups on Hawaiian language and/or culture oriented activities such as an oral presentation, a bulletin board display, an Aloha Week/May Day pageant, or Makahiki Festival.
- Practices behavior that illustrates respect for self, schoolmates, teachers and community resource people.
- Describes the ethnobotanical uses of plants by the Hawaiians including food, medicine, dyes, shelter, tools, weapons, ornaments, religious and social rites.
- Describes how availability of certain materials and paucity or lack of other materials directly affected the development of many elements of Hawaiian material culture.



C		Anna
CON	TENT	AREAS

## **EMPHASES**

FOOD AND NUTRITION

Nutritional value of plant foods

Variety of uses of kalo (taro)

Eating patterns of Hawaiians today

Effect of cooking on the nutritional value of foods

GAMES AND RECREATION

Creative movement
Dramatization of the steps in planting <u>kalo</u>

## LEARNER OBJECTIVES

## APPENDICES

 Compares the eating habits of many Hawaiians today who eat American food with high fat and refined sugar content and low fiber content with the eating habits of Hawaiians of former times who ate generally a vegetable diet supplemented by seafoods and occasionally meat protein. Jnit VI - C Nutritional Value of Hawaiian Plant Foods, pp. 200-20'

- Identifies some of the health problems of many Hawaiians today as reputed by the Department of Health and investigates to see which ones may be related to eating habits, food eaten, excessive use of ralt, or being overweight.
- Names many of the foods eaten at a Hawaiian <u>lū'au</u>, or <u>pā'ina</u> and indicates why they were and are important nutritionally.
- Discusses some of the differences in cooking methods available to the Hawaiians of former times and to people in modern Hawai'i.
- Performs more advanced or complicated body movement patterns in games and dances.

\*Unit VI - D "Huki I Ke Kalo", p. 202



## SCIENCE

See: Early Hawaiian Life, p. 145, for other - suggested science activities.

• The following ETV telecasts can be used in the study of taro cultivation in which water is so important.

See: Science in Hawai'i, A Fourth Grade ETV Guide. Two units are appropriate for the study of the kalo plant and other plants of early Hawai'i.

- 1. "Science and Technology of Crop Production, Old and New," pp. Kl-K9.
  - a. This lesson may be used to answer the questions found in Early Hawaiian Life, pp. 140, 142-143.
  - b. This unit explores the scientific knowledge required in agriculture and presents a comparative study of the "old and new" methods of scientific farming.
  - c. The unit includes pre- and post-telecast activities including suggested field trips.
  - d. Study the Hawaiian vocabulary and include them in activities as much as possible.
  - .e. Check the ETV schedule for program time. Individual program

## LANGUAGE ARTS

See: Early Hawaiian Life, p. 145, for suggested activities in language arts that correlate with the social studies and science activities in this unit.

- Additional fun activities in language arts dealing with the planting of kalo.
  - 1. Have the students learn some vocabulary words dealing with the <u>mahi'ai</u> (farmer).

See: Appendix Unit VI-A. pp. 196-197.

The <u>kupuna</u> (grandparent) in your school is an excellent resource person to do this lesson.

- 2. To promote creativity:
  - a. Have the children think of a familiar tune like "This Is the Way I Brush My Teeth."
  - b. Using this tune have them write new lyrics for the song using the steps in planting kalo or preparing poi as the theme.
    - E.g.: This is the way we kanu i ke kalo (plant the kalo)
      Kanu i ke kalo
      Kanu i ke kalo
      This is the way we kanu i ke kalo
      I keia kakahiaka (this morning)
  - c. To translate the English words to Hawaiian, refer to the kupuna in

## HEALTH

An important part of the study of early Hawaiian plants involves the medicinal value. As the study of useful Hawaiian plants continues in Early Hawaiian Life, p. 144, an on-going study can take place in health on the medicinal uses of first the kalo plant and then other plants and herbs.

See: Unit  $V^{C}$ , p. 158, health, for activities. Scrapbooks of the medicinal plants may be made in health class.

1. Using worksheets showing the illness, (see Appendix Unit VI-B, pp. 198-199) have the children discover or research the remedy by using reference books or resource speakers.

Books to use:

See Unit V<sup>C</sup> p 158 under the content area of language arts for a list of references.

- 2. Encourage the children to ask their parents for ethnic cures. Compare Hawaiian medicines with those of other ethnic groups. Analyze similarities and differences.
  - E.g. Sketch a picture of a person with a headache. Leave enough space below the picture to write the correct cure after the research is done.
- 3. Describe, research and study the other uses of plants such as for dyes, houses, tools, weapons, special rites in social studies if the interest of the children is high. 382



## Music

## ART

## FOOD AND MUTRITION

## GAMES AND RECREATION

The following activities were developed to encourage children to compose songs of their own about kalo, wai (fresh water) or any subject dear to their hearts.

See: Early Hawaiian Life, p. 145. for suggested activities in music.

- Review the songs and chants the children have learned in earlier grades about kalo or poi. See: Appendix Unit VI-D. p. 202 for the chant, "Huki I Ke Kalo."
- 2. Using the original lyrics composed in language arts, encourage the children to decide upon a me.ody (original or borrowed) or set of tones to which their composition can be set and taught to the other students.
  - a. Have them write out their lyrics on a chart which they will use to teach their classmates.
  - b. If they are able, they can teach 'ukulele chords to the class and accompany themselves on the 'ukulele autoharp or guitar.
  - This is a good opportunity to bring out the Hawaiian 'ohana concepts of:

(respect) aloha alu like (working together) laulima (cooperation) See: Early Hawaiian Life, p. 146 for art activities. The resource books listed there are available in bookstores, public libraries and at the Kamehameha Schools bookstore.

Another excellent reference is DOE/OIS. Resource Units in Hawaiian. Arts and Crafts which should be available in every elementary school library. The quide contains details and illustrations on how to make a variety of Hawajian arts and crafts. This quide is available through inservice by the Ho'onani Artmobile staff of the Office of Instructional Services.

Another reference is Mitchell. Resource Units in Hawaiian Culture, Units 9 and 10, pp. 110After studying poi preparation in social studies. Early Hawaiian Life, p. 141, study the food nutrients and how they help the body.

See: Appendix Unit VI-C. pp. 200-201 for a chart showing the nutritional value of kalo, poi, 'ulu (breadfruit) and 'uala (sweet potato), four important staples of the Hawaiian diet.

- 1. Have the children study the nutritional information.
- 2. Encourage them to compare the nutritional value of each food.
- 3. Consider inviting a quest speaker from the Department of Health, UH College of Tropical Agriculture and Human Resources or the DOE Nutrition Education staff to talk about the importance of poi as baby food for babies with certain allergies.
- Read: Handy. Native Planters of Old Hawai'i, pp. 113-115. An interesting account of preparing poi is given by Mary Kawena Puku'i in her recollections of her childhood in Ka'ū, Hawai'i.
- 5. Have the children design experiments to preserve poi or pa'i'ai. Experiment

• The following activities are a means of introducing the children to the physical endurance required by people involved in kalo cultivation.

See: Appendix Unit VI-D. p. 202 for words to the chant, "Huki I Ke Kalo."

- 1. See your school kupuna about teaching this chant. He/she may have the chant on tape.
- 2. Go on a field trip to a lo'i kalo (taro patch) or a māla 'ai (taro garden).
- 3. If the situation can be arranged, request that the cultivator allow the children to participate in some of the activities relating to taro cultivation.
  - a. See: Early Hawaiian Life. p. 142 for activities in which the children could involve themselves. These could include:
    - 1) Cleaning and damming the 'auwai (ditch).
    - 2) Softening the lepo soil with the ooo (digging stick).
    - 3) Stamping the soil after water has been added to the patch.
    - 4) Planting the huli. 384

191

SCIENCE

LANGUAGE ARTS

HEALTH.

tapes are available at the ETV office at Manoa Elementary School. Call two weeks in advance at 988-2117, or send in a request form found in TV for Viewing.

- View Science in Hawai'i, A Fourth Grade ETV Guide, "Hawai'i's Water Resources." pp H1-H12.
  - a. Since water plays such a significant role in the production of kalo, the students should be made aware of how Hawai'i gets its water supply.
  - b. The study of Hawai'i's hydrologic cycle is an important part of this unit.
  - c. The children will have a good chance to realize the importance of conservation.
  - d. Use "Na Ki'i Ho'ona'auao" charts to locate places mentioned in the telecast. See Science in Hawai'i, A Fourth Grade ETV Guide. p. H3.
  - e. Use the kupuna to introduce the vocabulary in Hawaiian, especially that of the animals that lived in the streams such as those listed in Science in Hawai'i, A Fourth Grade ETV Guide, p. S3. The kupuna can share his/her experiences about catching, preparing and eating these animals.

385

your school or to any knowledgeable grandparent in the community. Encourage the use of the Hawaijan terms. Pūku'i's Hawaijan Dictionary is also an excellent reference to use.

3. Present some Hawaiian riddles and wise sayings about taro and other plants. See:

> Kamehameha School's Ho'omaka'ika'i/ Explorations 1981, pp. 45-66.

- 4. Go on a field trip to a nearby stream.
  - a. Have the children listen to the water and the sounds around them.
  - b. Have them write short poems or haiku about wai (water). Encourage them to use words relating to the senses.
  - c. Have the children illustrate their poems, similes or haiku. Use felt pens or charcoal on white paper. Encourage them to include aspects from the environment.
  - d. Share the poems with other classes.
- 5. Language development
  - a. Using Science in Hawai'i, A Fourth Grade ETV Guide, p. H3, have the children look up the place names in Pūkui's Place Names of

4. Compare the life span of Hawaiians of today with those of early Hawaii.

Ask:

- a. What kinds of illnesses did the early Hawaiians suffer from? What do they suffer from today?
- b. Why are there so many Hawaiians dying from cancer and heart disease?
  - 1) Encourage the children to predict a list of causes.
  - 2) Conduct research. Call the Cancer Information Center for resource speakers.
- 5. Plan a field trip to Waimea State Park or a similar state park on your island.
  - a. They will introduce the children to the flora and fauna found in the typical ahupua'a.
  - b. The children should be able to recognize the plants and tell their uses.
  - c. Encourage the children to discuss how the Hawaiians developed a way of life as a result of adaptation to their environment.
  - d. On the field trip, encourage the children to practice the 'ohana

A Maharan				Grade 4, Unit VI
	Music	Art	FOOD AND NUTRITION	GAMES AND RECREATION
<u>N</u>	Also see Early Hawaiian Life, pp. 208-227.  See: Elbert and Māhoe Lā Mele o Hawai'i Nei for Some songs about "wai":  "'Alekoki," pp. 32-33.  1) Select three to four of the nine verses for the children to learn. E.g. Verses 1, 4, 7, 9.  2) 'Alekoki is the name of one of the ponds in Nu'uanu. The song also mentions Kapena Falls and Māmala or Honolulu Harbor.	To improve upon the children's skills in creating a picture that expresses feelings reflecting the five senses, have them take their sketches of the stream environment done in the language arts lesson 4 on this page and develop them into 3-D presentations. This may be done through the collage techniques or through the diorama approach. The children may elect to do a group mural using the collage technique. If necessary, a second viewing of the video cassette	by freezing poi and pa'i'ai and see how they turn out after a few days.  6. Name the different methods of preparing kalo. Ask the children to bring in recipes.  E.g. a. Taro chips b. Poi c. Lü'au leaf d. Laulau e. Muffin f. Mochig. Kulolo  7. Talk about the kapu related to eating poi.	b. The purpose of such an encounter is to help the children appreciate the physical conditioning of the Hawaiians.  Generalizations:  The Hawaiians had to work very hard to provide food for themselves.  They made full use of their environment to meet their need for food.  They had to be in good physical condition to do the work of planting kalo.
· · · · · · · · · · · · · · · · · · ·	Honolulu Harbor.  3) Go on a field trip to see where 'Alekoki and Kapena Falls are located to see the abundance of wai.	"Hawai'i'3 Water Resources" (see science lesson on this page) may be shown. The children will see more elements to include in their art work.	E.g. No arguments or disagreements were allowed during mealtime when the point bowl was uncovered on the table.	
· b	. "Hanohano Kanalei," p. 41.	Display the finished products in the cafeteria, library or	8. Study the nutritional value of other plant	
c	"Ka Ua Loku," p. 62.	office.	foods eaten by the	
d	1. "Kōkohi," pp. 66-67.		Hawaiian people to deter- mine the health status	
· .	e. "Old Plantation," pp. 83-84.		of an early Hawaiian. Include a study of their	
f	f. "Wai O Ke Aniani,"		drinking water and another kind of liquid intake	

pp. 93-94.

such as coconut water.

SCIENCE

LANGUAGE ARTS

HEALTH

Hawai'i. Motivate an interest in learning more about these places by encouraging research in Hawaiian books. Stress the history of the area and its significance.

b. Using the same reference, have the children name as many place names that begin with or have the word "wai" in them.

Luahinewai E.q. Ala Wai 'Auwaiolimu Manawainui Hipawai Maunawai Honokowai Moanawai Huawai Muliwai'ōlena Nā limawai Kahuwai Nāwaihulili Kawaiaha o Kawaihae Piliwai Kawaihau Pu'uwaihu'ena Kawaiku'i -'Umiwai Kawaili'ula Wai'ale'ale Kawailoa Waialua Waikiki Kawainui Kepaniwai Wailua Waimea Luawai

concepts such as:

kokua lokahi aloha laulima kuleana alu like

- 6. Have the children investigate those factors in the local environment of today and in early times which have affected health and safety.
  - a. Effects of dietary changes.
  - b. Effects of tobacco smoking and drinking of alcoholic beverages (as opposed to the drinking of 'awa).
  - c. Effects of pollution in the air and in sources of fresh water.
  - d. Effects of continuing conditions is good to fire hazards, sanitation, disease controls, etc.

Stress to the children that some changes have been for the better, while others have been for the worse.

Have the children report on the results of their investigations.

<del></del>				G	rade 4, Unit VI
··· - · · · · · · · · · · · · · · · · ·	Music	ART	FOOD AND NUTRITION	GAMES AND	RECREATION
4.	Encourage the children to look around them and select a water-fall, or pond, or stream to describe poetically. Having sung several of the songs listed under activity #3, have them compose the music for their poems. They can sing their tunes on a tape and the music resource teacher may be tapped to help	Have the children paint a picture of the location of their waterfall, pond or stream. Encourage them to do this painting on location so that they will include the flora in the area. Set up a bulletin board display of their paintings along with their poems.	9. Discuss and study the food intake of people in Hawai'i today.  a. Call in a speaker from the Department of Health to discuss the health of the Hawaiians today.		
5.	transpose the songs on to music notation sheets.  Share these compositions with		b. Compare the health of the Hawaiians with other cultural/ ethnic groups.		
•	other classes.		10. Compare the eating habits of Hawaiians today with those of early Hawai'i.	•	
			11. Compare and discuss the method of food preparation and talk about what happens to nutrients in various methods of cookery.		
		Andrew.	E.g. Boiling vs. steaming Frying vs. baking		
,			· · · · · · · · · · · · · · · · · · ·		· •

#### <u>"Maika'i, Mahia'ai!"</u>

In Hawai'i long, long ago there lived Mahi'ai, a keiki kane. He had an 'ohana just as you do. But in his 'chana were his two older brothers, two younger sisters, his makua kane, makuahine, kupuna and many aunts, uncles and cousins. Some of his 'ohana lived near the lo'i kalo (taro patches). Some lived near the kahakai (beach).

Mahi'ai and his family rose early each morning starting their day's activities while it was cool. Today was special because Mahi'ai's makua kane (father) was going to let him join all the other men and older boys. They were going to work in the lo'i kalo. He no longer needed to stay with his sisters. He could help in the kalo patch just like Kekoa and Keola, his older brothers!

Mahi'ai was the first one ready to go because he was too excited to sleep and had gotten up very early. Everyone had fun yesterday trampling in the mud of the <a href="logic logic logic

When they all got to the fields the leader of the planting offered a prayer to the gods. He prayed that they would help the young kalo plants grow big and strong. He prayed that they would be able to harvest a good crop. After the prayer the workers began planting. Mahi'ai's makua kane told him that his job was to bring the huli (plant cuttings) to the men who would plant them in straight rows. Mahi'ai had to run along the lo'i kalo with the bundles of huli and pass them to the planters. At first Mahi'ai ran, moving very quickly. As the sun rose higher in the sky, the day became warmer and warmer. Mahi'ai grew more and more tired. He took a sip of water from the water gourd making sure not to drink more than his share. His father and brothers needed a drink too.

Everyone kept right on working and it seemed to Mahi'ai that they did not slow down. He did not know how long he could keep up but he knew that he could not stop or his brothers would see how tired he was. His father might not let him work in the fields with them anymore. Aue! Just when he thought he could not lift another bundle he saw his sisters come with their lunch. Everyone stopped to eat! Ono! Mahi'ai was so hungry! After eating, he felt like sleeping. But everyone went quickly back to work. Mahi'ai watched his sisters walking back toward the kauhale and for a minute wished he could go with them. They would probably go to the beach for a swim or play in the stream among the rocks.

"Hele mai, Mahi'ai!" Keola was waiting for more huli. Aue! Mahi'ai gathered up his bundle of huli and ran toward his brother.

At long last, the planting was finished. Mahi'ai was not sure he could walk home. He was exhausted! His brother Kekoa saw his dragging footsteps and hoisted him upon his shoulders. "Maika'i, Mahi'ai!" "You worked well today." Mahi'ai felt a burst of pride but he was too tired to say anything and promptly fell asleep atop his brother's shoulders.

"Mahi'ai, Mahi'ai, it's time to 2at," said Keola. Mahi'ai awakened and hurriedly went to the hale mua where all the other men of the 'ohana were gathered. Once inside the hale mua, the men's eating house, Mahi'ai's makua kane offered a prayer to the 'aumakua asking for help to make the kalo plants grow well and thanking them for the fine planting day. This was Mahi'ai's first meal with the men. He felt so proud; he no longer needed to eat with the women and younger children.



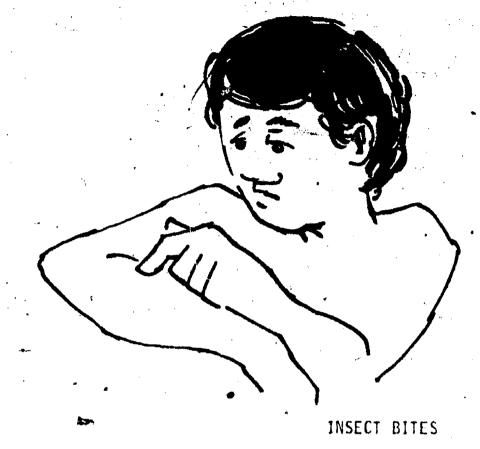
After eating, Mahi'ai needed to help clean the eating utensils (bowls, cups, spoons). He put them away and ran to the hale noa. Each night his job was getting the kukui nuts on the ni'au (coconut mid-rib) and placing the ihoiho kukui in the stone holder. By candlelight he heard his kupuna kane (grandfather) tell stories of the 'ohana, powerful gods and great ali'i. Scon it was time to sleep. Mahi'ai put out the light and went to sleep. He slept smiling as he remembered his brother's praise, "Maika'i, Mahi'ai!"



MEDICINAL USES OF PLANT Sample Worksheet	s:			~	<u>KĪ</u>	
Sample Horksheet						
Where grown?	. ,					
•	· ·		KINI		A	
	•	\		1000		//
	<del></del>					
					<i>\                                    </i>	
					$\mathbf{M} \mathbf{I} \mathbf{I}$	
						16
Medicinal Uses:				A		
					AY M	1
<b>(</b>				W.Y		
	······································				11/4	
			•		17.4	x25
		•	٠.	V		
	<del></del>		•			
Other Head	· ·		•	· •	I THE	
Other Uses:						75
	· · · · · · · · · · · · · · · · · · ·			•		• • • • • • • • • • • • • • • • • • •
			<del></del>		原源	
	~;			·		•
					沙里	
	•	•	·		<b>***</b>	

#### MEDICINAL USES OF PLANTS Sample Worksheet





Plant Name:

Description:

Plant Name:

Description:

Description:

Médicinal Uses:

FEVER

Medicinal Uses:

Medicinal Uses:

Other Uses.

Other Uses:

Other Uses:

BEST COPY AVAILABLE 40

#### NUTRITIONAL VALUE OF HAWAIIAN PLANT FOODS

POI – Two finger TARO/KALO
% cup cooked BANANA—Bluefield/MAI'A
1 medium COCONUT MILK / WAI NIU W cup with water Ribollavin Aibellavie Calcium Pitzesin A tscorbic Acid Calcien Thiamiae **E**alcium Thiamine Calcium Vitamia A Ascordic Acid Vitamin A == ir ca Riboflayin Ascerbic Acid

ERIC

401

200

BUSH ONE AVAILABILE

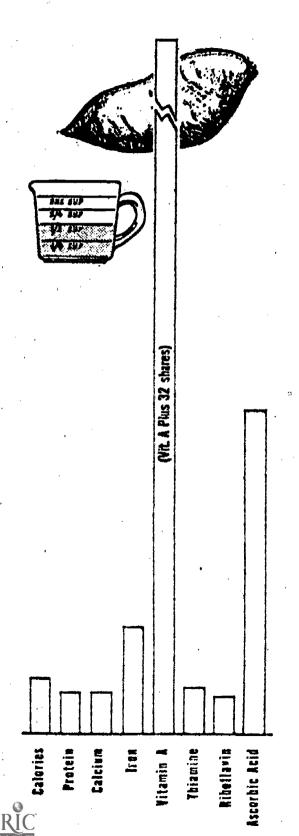
402

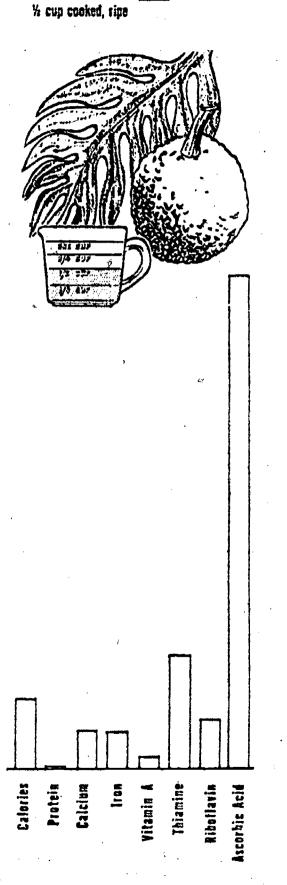
BEST COPY AVAILABLE

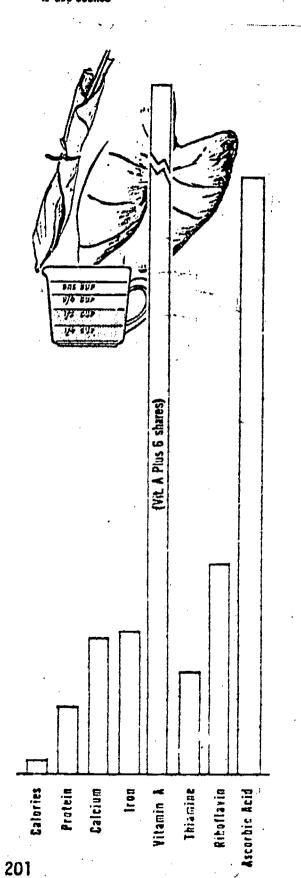
BREADFRUIT / 'ULU

WAU (Taro Leaves)

Grade 4, Appendix Unit VI-C







For more information on foods eaten in Hawai'i, please refer to the Companion document for Nutrition Education Teachers' Guide (Draft), Department of Education.

This document contains detailed charts on 200 of the most commonly eaten foods in Hawai'i.

**BEST COPY AVAILABLE** 

#### "Huki I Ke Kalo"

\* Huki i ke kalo

Huki, huki mai.

'Oki i ka huli

'Oki, 'cki mai.

Holoi i ke kalo

Holoi, holoi mai.

Pull the taro Pull, pull

Cut the taro top Cut, cut

Wash the taro Wash, wash.

. Ho'omo'a i ke kalo

Ho'omo'a mai.

Ihi i ka 'ili

Ihi, ihi mai.

Ku'i i ke kalo

Ku'i, ku'i mai.

Cook the taro

Peel the skin. Peel, peel

Pound the taro Pound, pound.

Ho'owali i ka wai

I ka pa'i'ai.

\* 'Ai i ka poi

Mā'ona mai.

M-m-m-m-m- 'ono!

Stir in the water In the freshly pounded <u>kalo</u>.

Eat the <u>poi</u> (till) satisfied.

\* Starred verses are part of the original chant contained in Kamehameha Schools, Ho'omaka'ika'i/ Explorations 1981. Reprinted with permission of the Kamehameha Schools/Bernice P. Bishop Estate.

Non-starred verses were composed by Hawaiian Studies state staff.



# HO'OKIPA

The following lessons were developed to accompany the lessons found in the 4th grade social studies guide, <u>Early Hawaiian Life</u>, pp. 148-166, Grade 4. Unit VII

CONTENT AREAS

**EMPHASES** 

SOCIAL STUDIES

Methods of fishing
Hand fishing
Raskets and traps
Snear
Hook and line
Pole
Net

Areas for fishing Freshwater Inshore Reef Deep sea Night

Kapu and rituals
Roles of women, men, children
Kapu foods
Conservation

Exchange system

Fishponds
Construction and upkeep
Kinds of fish raised

SCIENCE

The interesting habits of fish Eating habits Reproductive process Natural defenses

#### LEARNER OBJECTIVES

See: Early Hawaiian Life, pp. 154-155 for more objectives.

- Discusses the food exchange system, the necessity for cooperation and working together on individual projects such as fishing and the pulling together of the community in large numbers to provide labor for the chiefs and konohiki for large-scale projects. (kckua, laulima, alu like, lokahi)
- Describes, using the food exchange system within the <u>ahupua'a</u> as a case study, how <u>'ohana</u> and community members were dependent upon one another in Hawaiian society during former times.
- Recognizes that the Hawaiian food exchange system was based on sharing and giving and receiving, instead of trade or barter, which stemmed from motives of practicality, sympathetic interest in general welfare of the scattered 'ohana and as a matter of self-respect.
- Explains using both ancient and modern Hawai'i as a case study, how economic resources are allocated and utilized to satisfy the people's basic needs and wants.
- Describes some ancient cooking methods which are still in use.
- Discusses some of the differences in cooking methods available to the Hawaiians of former times and to people in modern Hawaiii.
- Explains why the Hawaiians developed inshore fishponds.
- Contrasts the kinds of fishing women and children could do compared to men.
- Names some of the gear that a Hawaiian fisherman used for various typés of fishing using Hawaiian words where possible.
- Discusses some of the beliefs and kapu connected with fishing.
- Explains some of the aspects of the kapu system as it related to eating and food.
- Identifies some species of fish known to the Hawaiians of former times either in real life or through pictures giving the Hawaiian name wherever possible.
- Identifies other foods besides fish which the Hawaiians of former times and of today could obtain from the ocean and inshore areas.

#### APPENDICES

- Unit VII E "Life In Ancient Hawai'i Foods" A Supplement, pp. 237-242.
  - J Fishing, pp. 253-254

The teacher should read Appendix J of this unit to get a general background needed to teach this unit.

Other Appendices are available in <u>Early Hawaiian</u> Life, pp. 202-248.

CONTENT AREAS

**EMPHASES** 

SCIENCE (CONTINUED)

The anatomy of fish
External characteristics
Internal characteristics

The ecosystem of a fishpond Interdependency of plant and animal life Organisms that live in ponds

LANGUAGE ARTS

Hawaiian language

Learning to pronounce correctly the Hawaiian names of the seafood eaten by the early Hawaiians

Writing daily journals on the life of a sea animal

Writing reports on a sea product

Listening to and discussing:

Legends Stories

Historical accounts about fishing

Composing poems and creating stories about sea life

Discussing conservation techniques Loko i'a (fishponds)

Writing business letters Conservation of sea and pond life

#### LEARNER OBJECTIVES

#### APPENDICES

- Discusses some of the beliefs and kapu connected with fishing.
- Explains why the Hawaiians developed inshore fishponds.

(See <u>Science in Hawai'i</u>, <u>A Fourth Grade ETV Guide</u>, p. R1 for specific objectives of the ETV lesson on "Pond Communities in Hawai'i")

- Imitates with correct pronunciation the Hawaiian words, expressions and phrases modeled by the teacher or kupuna.
- Identifies some of the sea foods eaten by the Polynesians.
- Listens to and answers questions orally and in writing about a legend or story about Hawai'i told in English but containing Hawaiian expressions and phrases appropriate to the child's level of language development in Hawaiian.
- Describes the differences between the generalized education for living and specialized training that children in ancient Hawai'i received and the kinds of education a child in modern Hawai'i receives.
- Identifies some methods used by the Hawaiians for finding answers to questions and for solving problems such as referring to legends or keen observation.
- Writes prose or poetry in English, using Hawaiian words and expressions where appropriate, expressing the student's feelings about Hawai'i, Hawaiian food, music, dance, people and history.
- Explains some of the aspects of the kapu system as it related to eating and food.

Unit VII - A Hawaiian Seafoods, p. 232

- B Sea Life Report, p. 233

414

CONTENT AREAS

**EMPHASES** 

HEALTH

Importance of religion to the kanaka lawai'a (fishers) Observance of kapu Laws of early Hawai'i vs. those of today's fishers

Preservation techniques of early Hawai'i vs. today's cooking Salting preservative chemicals Drying

freezing

Diets of fishers Today vs. early Hawai'i Compare nutritional value and cost

Music

Songs of sea life ` Learning to sing Hawaiian songs with the accompaniment of the 'ukulele and/or autoharp Learning new vocabulary words and correct pronunciation through the singing of Hawaiian songs



#### LEARNER OBJECTIVES

- Compares a day in the life of a Ha#Aiian tarmer or fisher in former times with that of a modern farmer or fisher.
- Describes the differences between the generalized education for living and specialized training that children in ancient Hawai'i received and the kinds of education a child in modern Hawai'i receives.
- Contrasts factors in the local environment which presently affect health and safety with factors that existed in the environment in former times.
- Names many of the foods eaten at a Hawaiian  $1\overline{u}'au$ , or  $p\overline{a}'ina$  and indicates why they were and are important nutritionally.
- Contrasts the Hawaiians' notion of religion and spirituality with that of one's own ethnic group, with that of many members of modern religions, or with that of other ethnic groups that the student has studied.
- Discusses ways in which it is evident that Hawaiians regarded nature and their place within nature somewhat differently from those who came to Hawai'i from some other cultures and tries to determine if some of these groups of people have been influenced by the Hawaiians' view.
- Listens to and accepts opinions of others in group discussions.
- Recognizes that within any ethnic or racial group an individual is unique, similar to but different in some way from all other fellow members of the group and from other people.
- Recognizes that the Hawaiian culture and way of life is now a part of America's multi-ethnic society.
- Performs from memory simple Hawaiian songs.
- Sings selected Hawaiian songs introduced by the teacher while playing rhythmic or harmonic instruments ('ukulele, guitar or auto harp) in time with the beat.
- Accompanies a Hawaiian chart using a rhythmic instrument such as an ipu, pū'ili, kāla'au, kā'eke'eke, 'ili'ili or other implements.

#### APPENDICES

Unit VII - E "Life in Ancient Hawai-i - Foods-A Supplement," pp. 237-242

Unit VII - C "Humuhumunukunukuapua'a", pp. 234-235

CONTENT AREAS **EMPHASES** MUSIC (CONTINUED) "He 'Ono" Songs: "Ku'u Pupu Kau Pohaku"-"'Opae E" "Humuhumunukunukuapua'a" "Ka Uluwehi O Ke Kai" "Na 'Ono O Ka 'Aina" ART Artifacts for fishing Fashioning a fishhook out of bone Making hau rope 'Upena (net) making Drawing and painting sea life Building a miniature fishpond GAMES AND RECREATION Creative movement Creating <u>hula</u> movements for songs learned in music class Musical chairs Learning to listen for the names of fish in a fun game 420 421

#### LEARNER OBJECTIVES

#### APPENDICES

- Creates melodies and lyrics concerning a Hawaiian theme using English and Hawaiian words, expressions, and phrases.
- Illustrates the tonal-rhythmic patterns of a Hawaiian song through singing and performing interpretive dance patterns and body movements.
- Coordinates motions and movements of hands and feet while performing a traditional <u>hula kahiko</u> or <u>hula 'auana</u>.
- Recognizes that selected words and expressions found in chants and songs that have been learned can be incorporated into the student's passive or active vocabulary.

- Works with partners or groups on Hawaiian art and/or culture oriented activities such as an oral presentation, a bulletin board display, an Aloha Week/May Day pageant or <u>Makahiki</u> festival.
- Practices behavior that illustrates respect for self, schoolmates, teachers and community resource people.
- Performs roles in simulation activities illustrating individual rights and responsibilities in a group situation.
- Describes the way of life of the early Hawaiians as a result of adaptation to the environment.
- Relates how the Hawaiians adapted foreign materials and technology to their needs when these things became available.

- Unit VII 5 Fashioning a Fishhook, p. 236
  - i Making <u>Hau</u> Cordage, p. 252

- Teaches younger children the rules for simple Hawaiian games and activities.
- Performs more advanced or complicated body movement patterns in games and dances.

Unit VII - F "Kanaka Lawai'a," pp. 243-247

G "Go to the Head of the Fish,"



CONTENT AREAS

**EMPHASES** 

GAMES AND RECREATION (CONTINUED)

Fishing games

"Go to the Head of the Fish", - Children are given a fun way to learn the various methods of fishing.

"Kanaka Lawai'a" - Children are given a chance to recognize the variety of Hawaiian sea life using their Hawaiian equivalents.

#### LEARNER OBJECTIVES

#### APPENDICES

- Participates in Hawaiian games and sports.
- Relates the use of Hawaiian games, sports, and quieter pastimes in former times to improving coordination and agility, physical strength, logical thinking and memory.
- Coordinates motions and movements of hands and feet while performing a traditional <u>hula kahiko</u> or <u>hula 'auana</u>.
- Identifies some species of fish known to the Hawaiians of former times either in real life or through pictures giving the Hawaiian name wherever possible.
- Identifies other foods besides fish which the Hawaiian of former times and of today obtains from the ocean and inshore areas.

Unit VII - H Answer Sheets for "Go to the Head of the Fish" and "Kanaka Lawai'a"/Fishes and Fishing Methods, pp. 249-251.

The following lessons were developed to accompany the lessons found in the 4th grade social studies guide, Early Hawaiian Life, pp. 148-166,

Grade 4. Unit VII

#### SCIENCE

- Science activities to study the habits of fish/sea life.
  - 1. Call your science resource teacher and request a salt water aquarium for the classroom. Have available a variety of fish/sea life for the aquarium. Have the children observe for answers to their questions as they participate in the following activities.

#### 2. Inquiry

- a. Talk about the importance of sea life to the Hawaiians and what they needed to know about the sea creatures' habits in order to be successful on their fishing trips.
- b. Encourage them to ask questions such as
  - 1) What does aku feed on?
  - 2) When does the <u>'ama'ama</u> (mullet) lay its eggs?
  - 3) How do fish reproduce?
  - 4) In which depth of the ocean can we find kum: (goat fish)?
  - 5) How does food pass through the fish's system?

Based on the questions the children ask, science activities can be conducted to find answers to their questions. Activities may include some of the following

#### LANGUAGE ARTS

- Language activities dealing with the sea life of early Hawai'i.
  - 1. Learn the pronunciation of the variety of fish and sea life eaten by the early Hawaiians. See Appendix Unit VII-A, p. 232.
  - 2. Daily journal
    - a. Have the children keep a ten-day journal of their observations of a sea creature in the salt water aquarium.
    - b. Discuss with them things to look for.
    - c. Encourage them to experiment with their sea creature. For example:
      - 1) What happens when you tap the side of the aquarium?
      - 2) What happens when you cover the entire tank with a cover to darken the aquarium?
  - 3. Fish/sea life report
    - a. On a large wall chart write the names of all the fish/sea life the children can think of as being part of the Hawaiians' diet. Use the Hawaiian as well as the English names.

#### HEALTH

- Inquiry activities dealing with the feelings of the Hawaiians, especially the fishers, who lived under a very strict religious system.
  - 1. Have the children talk about
    - a. "What is religion, spirituality?" Encourage them to share their religious activities and what it means to them.
    - b. What do we mean by the term god?
    - c. How does this being or spirit affect our lives? Does this spirit play an important part i♥ our lives?
  - 2. Compare the children's religious observances with that of the early Hawaiians.
    - a. Read: Handy. Ancient Hawaiian Civilization, pp. 106-108 to the children.
    - b. Divide the children into three-four groups and have them discuss their feelings about the follow-fing questions. Remind them about listening to and accepting the opinions of others.
      - 1) How did the <u>kapu</u> (rules) help the <u>kanaka lawai'a</u> (fisherperson) be more successful?

ŀ	US	ï	Ċ
\$" j	US	ı	L

ART

#### GAMES AND RECREATION

Songs about fish and other sea life.

Discuss how composers of today take topics from the environment and compose lyrics.

1. "He 'Ono" (Delicious) by Bina Mossman

This song describes the delectable fish of the sea. See Elbert and Mahoe. Na Mele o Hawai'i Nei, p. 48.

- a. Write the words on a chart.
- b. Have the children point out all the names of familiar fish in the song as you underline them with a colored pen.
- c. Talk about other familiar Hawaiian words in the song. Ask a kupuna or music resource teacher to assist in teaching the song.
- e. Teach the song, one line at a time. The tune is catchy but the words require skill in pronunciation due to the many glottal marks. The children will learn it quickly, however, because it is such a fun song.

- Art activities involving the fashioning of artifacts used for fishing. See: <u>Early</u> Hawaiian Life, p. 163.
  - 1. Fashion a fishhook out of bone, wood or clay.
    - Review some of the fishing methods used by early Hawaiians, then motivate the students to fashion a makau (fishhook) out of iwi (bone) makau iwi.
    - b. Show them pictures of a variety of hooks using the following references:
      - Buck. Arts and Crafts of Hawai'i,
      - 2) Emory. Fishhooks
      - 3) Feher. <u>Pictorial</u>
        History of Hawai'i
    - c. Try to take them to the Bishop Museum or any other similar place to study the designs of hooks.

- Creative movement for songs about sea life.
  - 1. Have the children create their own motions for Hawaiian songs about the ocean that are written in English.
    - a. "Hukilau"

      See: Alfred Apaka's

      Greatest Hits,

      Capitol Records, for song.
      - 1) Write the words on a big chart. The children have probably learned this song in an earlier grade. If not, it can be taught in music class.
      - 2) Encourage the children to create the hula motions for this song.
      - 3) When they have mastered the hand motions, review the leg/foot movements in hula as shown in Appendix Unit I-K, pp. 40-41.

#### SCIENCE

#### suggestions:

- 1. Visit the Aquarium or Sea Life Park to study the different kinds of sea life. Coordinate your objectives with theirs. See: Appendix Unit VII-H, pp. 249-251.
- 2. Learn the Hawaiian names of the various sea animals studied.
- 3. Call in a resource speaker, like a professional aku fisher, to talk to the children about aku, their habits, where they live, how to catch them, how to keep them fresh, what they feed on, how valuable they are today, etc.
- 4. Study the life of a salmon to see the life cycle of a fish.
  - a. #1540 "King of the River", 11 min. 16 mm. Film Catalog/1978 OIS, Multimedia Branch Services.
  - b. Other films:

#0279 "Biography of a Fish", 10 min. Shows the life cycle of the stickleback fish.

#0930 "Fish are Interesting". Points out the differences in structure, defenses, food, and other habits.

#### LANGUAGE ARTS

# See: Titcomb. Native Use of Fish in Hawai'i.

- b. In a second column write the name of the student who volunteers to do the research on that particular sea animal/plant.
- c. Discuss the format of the report and contents. See: Appendix Unit VII-B, p. 233 for a suggested format.
- d. Encourage the children to use several references.
- e. Have the children share the reports with the class, then compile them into a booklet for others to enjoy. Encourage them to compose simple poems also.
- 4. Read Handy. Ancient Hawaiian Civilization, pp. 105-111, "Aku and Ahi Fishing." When completed, have the children recall:
  - a. Steps in preparation
  - b. Religious ceremonies <u>kapu</u>
  - c. Hawaiian terms:

'aumakua ho'okele kanaka Tawai'a ko'a kū'ula (family guardian) (steersperson) (fisherperson) (fishing ground) (fishing god)

#### HEALTH

- 2) If you were a fisher in early Hawai'i and you believed in the help of the gods, how would you feel after praying for help?
- 3) If a wife did not keep the <u>kapu</u> while her fisherman husband was out fishing, how would you feel about the <u>kapu</u> if he came home loaded with fish anyway?
- 4) What do you do today to get the kind of spiritual strength the Hawaiians received after praying to the gods?
- c. Have the children compare the early Hawaiian beliefs with those of their own religion.
- d. Have the children interview their parents about their religious beliefs. This may lead to a study of the various religions.
- e. Have them think about the impact of the unseen spiritual god and how he/she affects the lives of people all over the world.
- f. Ask:
  - 1) How can this spiritual force help you today?



2.	"Ku'u Lei Pūpū" by Mary K. Pūku'i
	See: Māhoe. <u>E Himeni Hawai'i</u>
	Kakou. pp. 84-85.
	Elbert and Mahoe. Na Mele O
	Hawai'i Nei, p. 72.

Music

This song describes the beauty of the lei pupu o Ni'ihau (shell lei of Ni'ihau). It was written for a Lei Day Pageant in 1952 and has become a great favorite with the people of Ni'ihau in celebrating the beauty of the tiny seashells. The English translations are given with the above-listed references.

- a. Take a shell <u>lei</u> to class to school to show the children what this type of lei looks like. There are many kinds besides those from Ni'ihau.
- b. Have the children listen as you read the five verses of the song in English. Then introduce the five verses in Hawaiian using a chart.
- c. If you are not familiar with the tune, ask the kupuna or music resource teacher for kokua.
- d. Underline the Hawaiian words familiar to the children and point out new words to build up their vocabulary:

#### ART

- d. Show them slides of hooks or a film from the DOE 16mm Film Catalog, #3685, "Hawaiian Fishhooks," ll minutes.
- e. Encourage them to bring in soup bones from home (as used in making soup or stew) or go to the supermarket and ask the butcher for some.
- f. Clean and dry the bones and cut into 1/4" 3/8" widths.
- g. Give each child one section and have him/her draw the shape of his/her hook on the section. See: Appendix Unit VII-D, p. 236 for diagrams and procedures.
- h. If this activity seems too difficult for some of your students, have them fashion their hooks out of white clay. Fire their hooks in a kiln.
- 2. <u>Kaula hau Hau</u> bark rope

  The children should experience the making of

#### GAMES AND RECREATION

- 4) Have them include the foot work in hula. E.g.,
  - a) kāholo
  - ) hela
  - c) <u>'uehe/'uwehe</u>
  - d) ami
- 5) Do the complete <u>hula</u> for another class after a few practice sessions.
- b. "Ku'u Lei Pūpū" (See: music activity #2 on this page.) Practice the <u>hula</u> motions created in music.
- c. "'Õpae E"

Using the translation shown in Appendix Unit I-F, p. 34, create hula motions for all of the verses.

Encourage the children to choreograph the dance. Do this creative movement as a hula noho (sitting dance).

### VII

#### SCIENCE

5. ETV viewing - Science in Hawai'i: "From A Single Cell ... A Story of Development"

This program shows how living things reproduce, differentiate and grow because of heredity and environment. It shows the union of sperm and egg of the Medaka fish. Pre- and post-viewing activities are included in the guide, Science in Hawai'i, A Fourth Grade ETV Guide.

Another interesting aspect of fish life and its adaptation to its environment is its natural defense system.

- 1. Talk to the children about how various sea animals protect themselves. Have them share their personal experiences.
  - E.g. Portuguese-man-of-war (Jelly-fish) has tentacles in which single cell nematacysts sting. Wana (sea urchin) releases sharp spikes when attached or stepped on.
- 2. Observe some of the sea life in the salt water aquarium and look for natural defenses.
- 3. ETV viewing Science in Hawai'i
  "War and Peace on the Coral Reef"
  Viewers can observe the damselfish
  who defends it territory from
  invaders. Pre- and post-viewing
  activities are included in the

the contract of the track of the

## LANGUAGE ARTS

- d. Season for catching aku/ahi
- e. Ceremony for a new fisher. How children learn to be fishers.
- f. How the Hawaiians practiced conservation.
- g. At the end of the recall discussion encourage the children to write a brief description of "A Hawaiian Fisherperson."
  - 1) Encourage them to include cultural factors that led to the development of different types of fishhooks for different purposes.
  - 2) Have them also include how they would have felt being an apprentice to a famous fisherperson.
- 5. Reading and discussing stories and legends about fish.
  - a. Guy and Pam Buffet. Adventures of Kamapua'a. This story is about the demigod Kamapua'a who was capable of changing himself into many forms, one of them being the humuhumu-nukunuku-apua'a.
    - 1) Read the story to the children and have them listen for the various forms of Kamapua'a.
      Refer also to Appendix Unit I-D pp. 29-30 for the various

#### HEALTH

- 2) How did the early Hawaiian belief in and respect for nature affect the people who came to Hawai'i later?
- 3) Do other cultures today observe some of the kapu of early Hawai'i? Why?
- 3. Have the children name some ethnic religious observances in Hawai'i today.
  - E.g. a. Chinese lion dances
    - b. Buddhist offering of food on grave sites
    - c. Hindu burning of incense and wearing of a painted dot on the forehead
    - d. Japanese Bon dance

The children should be able to verbalize the generalization that the Hawaiian culture and way of life is now a part of a multi-ethnic society.

#### 4. Culmination:

Invite an older person brought up in a Hawaiian lifestyle to share with the children his or her mana'o (thoughts) about Hawaiian fishing kapu and spiritual observances as practiced in his/her youth.



#### ART

E.g.

mahalo (admire)
no'eau (skill)
'ohi au a (I gathered
kui and strung)
lei kāhiko (decorative lei)

A <u>kupuna</u> could be asked to <u>kokua</u> with this lesson.

- e. Teach the song.
- f. After the children have learned the song, encourage them to create hula motions for each verse.
- g. Teach the 'ukulele chords as shown on the music score G and D7.
- 3. "'Ōpae E"

See: Appendix Unit I-F, p. 34. Use similar procedures to teach the song as outlined in #2 above.

Records: This Is Eddie
Kamae, LP, Eddie Kamae and
the Sons of Hawai'i; Mokulana, LP, Leon and Malia.
Mokulana features a story
related to the song which
the children would enjoy.

rope out of hau or olona. Since hau is so plentiful across the islands, have the children experiment with hau.

- a. For making hau rope DOE/OIS. Resource
  Units in Hawaiian Arts
  and Crafts (available
  in all school libraries) or see Appendix
  Unit VII-I, p. 252.
- b. Use the stripped hau branches for making carrying sticks, fashioning canoes, paddles or other Hawaiian artifacts or for making floats for a 'upena ko lau or hukilau, seine nets for catching fish near the shore.

#### 3. 'Upena kō lau

Call in resource persons to talk about, demonstrate and teach the children net making. They may work in small groups so that several children work with one resource person (kupuna if possible) on one

net. This is an excellent opportunity to work with 'ohana concepts of aloha, laulima, alu like, lōkahi, kōkua. This activity may require several sessions but while some are making the nets, others may work on the hau floats and hau cordage. Plan the activities with your resource

Talk about how the Hawaiians started using different kinds of introduced cordage to make their nets after the influx of newcomers.

4. Silkscreening

persons.

- a. Have the children create a design for the silkscreening process.
- b. Set these designs on notecards, T-shirts and fabric yardage.
- c. Designs can be of any of the reef animals, especially seashells.

- 5. Using Hawaiian Dyes
  - a. Experiment with dyes from Hawaiian plants and animals.
    - 1) Sea Urchin blue
    - 2) 'Ölena root yellow
    - 3) Noni root yellow
    - 4) Kukui husk black

See Lucas. Plants of Old Hawai'i

- Have the children do tiedying. They can make a kerchief using muslin.
- c. Evaluate the activity and have the children verbalize generalizations about the early Hawaiians.
  - E.g. The Hawaiians were innovative and very much aware of their environment.

· 439

Grade 4, Unit VII			Name of the second seco
SCIENCE		LANGUAGE ARTS	HEALTH
		2) Encourage the children to p a bulletin board display of various forms. The art work be done in art class. See a plans on the facing page.	the k can
• Studying the anatomy of f	ish	b. Pūku'i. <u>Tales of the Menehune</u> , 51-54, "Why the Mullet Swim Ar O'ahu."	<ul> <li>pp.</li> <li>round</li> <li>Preservation techniques of the early Hawaiians:</li> </ul>
1. Cut open a variety of  a. Plan ahead of time so the children's involved in supply with a variety of ones!).	e for this activity parents can be ying the classroom	<ol> <li>Talk about mullet to see if children know which fish you reading about. Have availa nicture of the 'ama'ama (mullet)</li> <li>Have the children share inforthey have about the 'ama'ama'ama'ama'ama'ama'ama'ama'ama'am</li></ol>	1. Discussion. Ask the students:  able a allet). How do we keep food from spoiling today?  b. How do you suppose the early
b. Invite a few parer helpers. Have the the kinds of inforto obtain.	e children plan	<ul><li>3) Read the story to the child</li><li>4) Discuss:</li></ul>	Hawaiians preserved their food?  (Write the children's predictions on a chart.)  c. What causes food to spoil?
<ol> <li>Locate the vit</li> <li>Draw and label internal parts</li> </ol>	l the external and	What kind of <u>mana</u> did the fave that empowered him to the 'ama'ama to swim to La'	cause   Experiment by taking a
3) Trace the dige systems. See the district s	estive and excretory	5) What do you suppose he did the 'ama'ama to do what he (Try to elicit inferences be on previous readings about religious rites of the Haw	to get asked? a) Rub his/her dirty hands on one section (label it).
teacher for dissection 2. Evaluate what the chill by having them research and present them to the	dren have learned their findings	E.g.: Feeding the <u>aumakua</u> .	b) Breathe on another (label).  c) Sneeze on another (label).

on the size of each form.

eye catching title for the

Have them decide on an

d. Teach the song using the 'ukulele. The tune is

catchy and should be

sung with lots of spirit.

kumu, 'ama'ama, weke.

kumu, 'ama'ama, etc.

SCIENCE

LANGUAGE ARTS

HEALTH

3. #3144 "What is a Fish?", 16 mm Film Catalog/1979, 22 min.

Bibliography - See: <u>Early Hawaiian Life</u>, p. 166.

Culminating activity

Have the children think about a particular fish they like especially and have them think about a particularly interesting habit of that fish. Encourage them to compose stories about them or to write poems. These may be illustrated and compiled into a booklet.

- Place all three sections in separate plastic bags for several days and have the children observe the results.
- 3) Talk about germs and how they thrive under certain conditions.
- 2. Having learned about germs, have the children study and experiment with the preservation of sea food.
  - a. Salting
  - b. Drying

See: Appendix Unit VII-E, pp. 237-242.

Music ART GAVES AND RECREATION "Ka Uluwehi O Ke Kai" bulletin board. Have the e. One player called (The Plants of the Sea) "mano" (shark) will title translated into Limu (seaweed) played a very Hawaiian by the kupuna in stand in the center important role in the diet your school or any other of the circle and\_\_\_\_ of the Hawaiians. It was knowledgeable Hawaiian call out the name of speaker. Remind them their source of iodine and one of the three other minerals and the "perabout the 'ohana concepts fishes such as "weke." fact garnish" for their food. that illustrate respect This song describes four for the self and others. f. All the weke have to kinds of limu: pahe'e stand up and change to 'ele'ele, lipoa and kohu. another seat. If the mano gets to a Source: Hi'ipoi I Ka 'Aina chair before one of Aloha, Edith Kanaka'ole LP. the weke. that weke Hula Records becomes the mano and calls out another name a. The words are written in of a fish. the centerfold of the album. Write the words h. If a mano wants everyon a song chart. one to stand up and change seats, all he b. Have the children point has to do is shout out familiar words such "Mano" and everyone as kai (sea), moana has to change at least - (ocean), nui (big), two chairs away from i luna (on top), etc. where he/she is seated Go over the words, 2. "Go to the Head of the listening for correct Fish" pronunciation. See Appendices Unit VII-F Have them listen to the and G. pp. 243-248 for record, especially for game materials and game greeting and happiness diagrams. Appendix F will expressed by a kupuna, be used for two games,

Aunty Edith.

447

"Go to the Head of the Fish" and "Kanaka Lawai-



ERIC Provided by ERIC

			Grade 4, Unit'VII
Music	ART	GAMES AND RECREATION	
."Nā 'Ono O Ka 'Āina" (Delicacies of the Land")		Teacher preparation:	
Source: Elbert and Mahoe.  Na Mele O Hawai'i Nei, p. 82  This song describes the		Run off copies of Appendix Unit VII-F, pp. 243-247. Glue each sheet to a sheet of oaktag. Cut each rectangle and laminate the cards.	
deliciousness of fish, especially the ma'i'i'i, hole, 'opelu and akule,		Game Procedure:	
maikoido, wana (sea urchins) and loli (sea cucumbers).  This song may be a little more difficult due to the language but a kupuna would be very helpful in teaching the vocabulary of this song.		1) The object of this game is to familiarize the children with the fishing methods of early Hawai'i. Given a picture of the seafood found in Appendix Unit VII-F, pp. 243-247 the player has to correctly	
		identify the fishing method used to catch or get that particular sea food.	
		2) If he/she gives the correct answer as recorded in inpendix Unit VII-H, pp. 249-251 he/she may throw the dice and advance towards the head of the fish.	
		3) If the player does not give the correct answer, he/she loses a turn.	
		4) There are obstacles on the track, but the winner who	
ERIC 449	225		450

SCIENCE

LANGUAGE ARTS

HEALTH

- The following activities involve the studying of the ecosystem of the pond community
  - Conduct the following lesson in conjunction with <u>Early Hawaiian Life</u>, pp. 161-163.
    - a. Refer to Science in Hawai'i, A
      Fourth Grade ETV Guide, Unit 18
      "Pond Communities in Hawai'i,"
      pp. R1-R6. See ETV schedule.
    - b. If unable to view the program at the scheduled time, order it for classroom showing on the Videotape Program Request, Television for Learning guide (ETV Section).

- The following language activities involve the studying of the conservation techniques of the Hawaiians in dealing with their loko i'a (fish ponds)
  - 1. Discussion Ask the children
    - a. What can people today do to prevent the pollution of ponds?
    - b. How did the Hawaiian pond keepers prevent the polluting of ponds? (Kapu)
    - c. What are some of these <u>kapu</u>? List on a chart.
  - 2. Have the children pretend that they are the ali'i of an ahupua'a. Have them write a list of ten kapu they would

- The health activities below involve the children in studying the diet of a fisher today and comparing it with that of an early Hawaiian fisher.
  - 1. Have the children predict the typical diet of a fisher today. Set up a chart to show the diets of a modern and an early Hawaiian fisher.

• .		
	Modern	Early
Breakfast		
Lunch		•
Dinner		

		<u> </u>		Grade 4, Unit VII
Music	ART	GAMES AND RECREATION		1
		gets to the fish's mouth first becomes the <u>Po'o</u> <u>Lawai'a</u> of the class (head fisher)	•	
		5) When a player is declared Po'o Lawai'a, his/her name may be placed on fish cards and placed on a bulletin board entitled "Po'o Lawai'a"	•	
		Eg.  Keola  etc.		41
	Loko i'a (fish pond) oriented group art activities. These activities are designed to increase the children's awareness of how the Hawaiians made	<ul> <li>Loko i'a (fish pond) oriented recreational activities. These activities help the children to recognize the variety of food available from the sea.</li> </ul>		
	good use of their natural environment. These activities encourage the practice of the 'ohana concepts and allow the children to be creative.	Have the children create "Fish" games similar to the one described below. See: Appendix Unit VII-F, pp. 243- 247 for game materials.	•	
		1. "Kanaka Lawai'a" game a. Run off four copies of each page of fish pictures of Appendix Unit VII-F, pp. 243-		454
ERIC' 453	227	247.		

#### SCIENCE

- c. This lesson involves the viewer in the study of the interdependency of plant and animal life in loko (pond) communities. It stresses the need for these loko (ponds) to be protected and conserved.
- d. ETV viewing Science in Hawai'i, "Hawai'i's Future"

This program discusses Hawai'i's potential self sufficiency. It takes a look at aquaculture and mining at sea. Video tapes are available at the ETV office-Manoa School.

- e. Find out about modern day rish farming called aquaculture. Consider going on a field trip to an aquaculture farm.
- 2. Study loko i'a (fish pond) water under the microscope.
  - a. Have the children collect samples of loko i'a water. If possible study the contents of loko i'a water right at a loko i'a to see the variety of organisms that live in loko i'a water.
  - b. Have the children identify the organisms, using books and resource persons.

#### LANGUAGE ARTS

declare in order to conserve the life in the <a href="loko i'a">loko i'a</a> (fish ponds).

- 3. Read: Handy. Native Planters in Old Hawai'i, pp. 260-262, to help the children understand
  - a. How a fish pond works.
  - b. How they were built and guarded.
  - c. What types of seafood were raised in fish ponds.
- 4. Culminating activity:

Practice writing business letters

Have the children write business letters to the Governor or to the legislators of their districts requesting state assistance in keeping pollutants out of the air and streams. Include in the letter reasons why and possible solutions on how to solve the problems.

#### HEALTH "

- 2. Analyze these foods eaten and tie them in to the health problems each group faced.
  - a. Do the Hawaiians today consume more salt than the early Hawaiians did?
  - b. What are the dangers of eating too much salt? sugar? fats?
- Look at nutritional value charts and compare the level of nutrition of both groups.
- 4. Classify the diet food of each group into the basic food groups and ask:
  - a. Which group ate more protein?
  - b. Which group consumed more fats and cholesterol?
  - c. How do these foods affect the health of these people?
- 5. Have the children research why fish and other seafoods are better for an individual rather than beef and pork.
- 6. Culminating activity:
  - a. Have the children write a healthy menu for an individual using the foods that the Hawaiians ate. Include the food of the people today, taking into account those



,				Grade 4, Unit VII
	Music	Art	GAMES AND RECREATION	
	,	1. Building a <u>loko i'a</u> . (See activity in <u>Early Hawaiian</u> <u>Life</u> , p. 161.  a. Have the children plan	b. Cut out the pictures of the seafoods and glue them to oaktag cut to the same size. Laminate these cards.	
•		a blueprint of their favorite fish pond. (This activity should be conducted after the children have had a chance to visit a fish pond or several fish	c. Deal out the cards so each player has five cards. Place the rest of the cards face down in the middle of the table.	
		ponds.)  b. Encourage them to use creativity in planning the layout, materials needed to build it,	d. Play the game just as you would "Fish" with a regular deck of cards.	
	•	size. The dimensions should be drawn to scale with the actual size of the pond they've chosen, if this information is	e. Each player must: attempt to accumulate as many sets of four as possible by asking his/her opponent for the desired card	
Ý	·	available.  c. Each participant should be made to feel important. Be sure roles are clearly	using the Hawaiian name for the seafood desired as his/her turn comes up. If the opponent does not have the card, he/she says "'A'ohe I'a."-	
		d. Using all the research materials they've acquired in social studies and science, have them construct a	no fish. 'A'ohe means "no more" so if the opponent asks for "limu 'ele'ele" and the person does not have the card, the	Ara
ERIC.	457	229	answer should then be "'a'ohe limu 'ele'ele:	458

	SCIENCE	LANGUAGE ARTS	
	c. Discuss the importance of to organisms to the well being the loko i'a.		b.
	d. Experiment with <u>loko i'a</u> wa by adding pollutants to the Have the children observe w happens to the organisms.	vater.	
	e. ETV viewing - Science in Ha "The Science and Technology Crop Production." This production." This productions the use of water early Hawai'i) for crop production and the science and technol involved in uses of the lan well as the water.	of ram in uction gy	
	Culminating activity:		
	Study: Sterling. Sites of and read about some of the i'a (fish ponds) located all the island. Find out who othem and what's being done them. Find out which ones disappeared and why.	oko over ns bout	
,	Another important resource in studying <u>loko i'a</u> is Sun <u>Hawaiian Fishponds</u> .		
	459		



foods that provide the highest nutritional value.

Ask: Do all people like Hawaiian food? Why or why not?

			Grade 4, Unit VII
Music	ART	GAMES AND RECREATION	
	miniature fish pond on cardboard or some other sturdy platform. Check for accuracy in	f. The player then picks up a card from the center deck.	
	placing the mākāhā (gate). Have them paint the variety of fish and limu and	g. The game continues until all the cards have been picked up from the center pile.	
	place mini-rocks with limu in the pond. Encourage creativity.	h. The winner is the player with the most packs of four.	
	e. Display the finished products in the library for other children to see. Have	This game is to familiar- ize the children with the Hawaiian names of the sea-	
	each group do a write- up on the pond.	foods and to recognize the various foods from the sea especially the limu and i'a (fish).	
	•		
461			462
0			

# HAWATIAN SEAFOODS

### FISHES

āholehole	young āhole, "sea pig"	*niuhi	grey shark
'ania'ama	mullet	*nai'a, nu'ao	porpoise
aku	ocean bonito .	'opelu	mackerel
akule	goggle eyed scad	'o'opu	goby
a'u	sword fish	'ōhua	young fish
āweoweo	red fish, big eye	'ō'io	ladyfish, bonefish
awa	milk fish	ono	mackerel type fish, "wahoo'
enenue, nenue	rudder or pilot fish	.'opakapaka	blue snapper
kala	surgeon fish	palani	surgeon fish
kole	surgeon fish	*palaoa	sperm whale
hinālea	brightly colored wrasses	*pualu	surgeon fish
*hinimanu	sting ray	ulua	crevally
*hāhālua	manta ray, sea devil	weke	goat fish
halalū	young akule	SHELLFISH	
humuhumunuku- nukuapua'a	trigger fish	hāwa'e	sea urchin
kawa kawa	bonito	hā'uke'uke	sea urchin
*koholä	whale	'ina	young wana
kūmū	goat fish	1eho	cowrie
·mānini	surgeon fish	'opihi	limpet
mālolo	flying fish	'ōpae	shrimp
moi	thread fish	pū ,	conch
		•	

pipipi small mollusks
papa'i crab
ula lobster
wana sea urchin

# OTHEP.

he'e octopus, commonly called "squid" limu seaweed pa'akai salt

\* foods <u>kapu</u> to women

Sealife Report

by

The name of my sealife is the

Scientific/English Name

Hawaiian Name

Description:

Where found:

Value:

This is a picture of \_\_\_\_

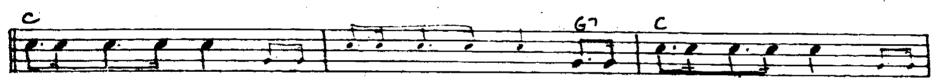


# HUMU-HUMU-NUKU-NUKU-

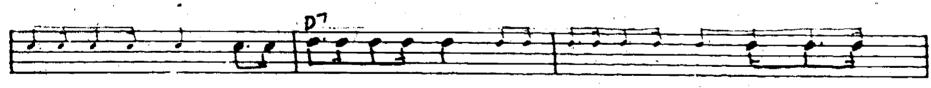


SAY "HU-MU - HU-MU" (hu-mu - hu-mu) SAY "NU-KU - KU-KU" (nu-ku - nu-ku) SAY"A-PU-





HU-MU" MEANS TO SWIM (hu-mu - hu-mu means to swim) "NU-KU - NU-KU" IS THE NOSE (nu-ku-



nu-ku is the name) "A-PU - A'A" IS THE PIG (a-pu - a'a is the pig) SO IT'S A



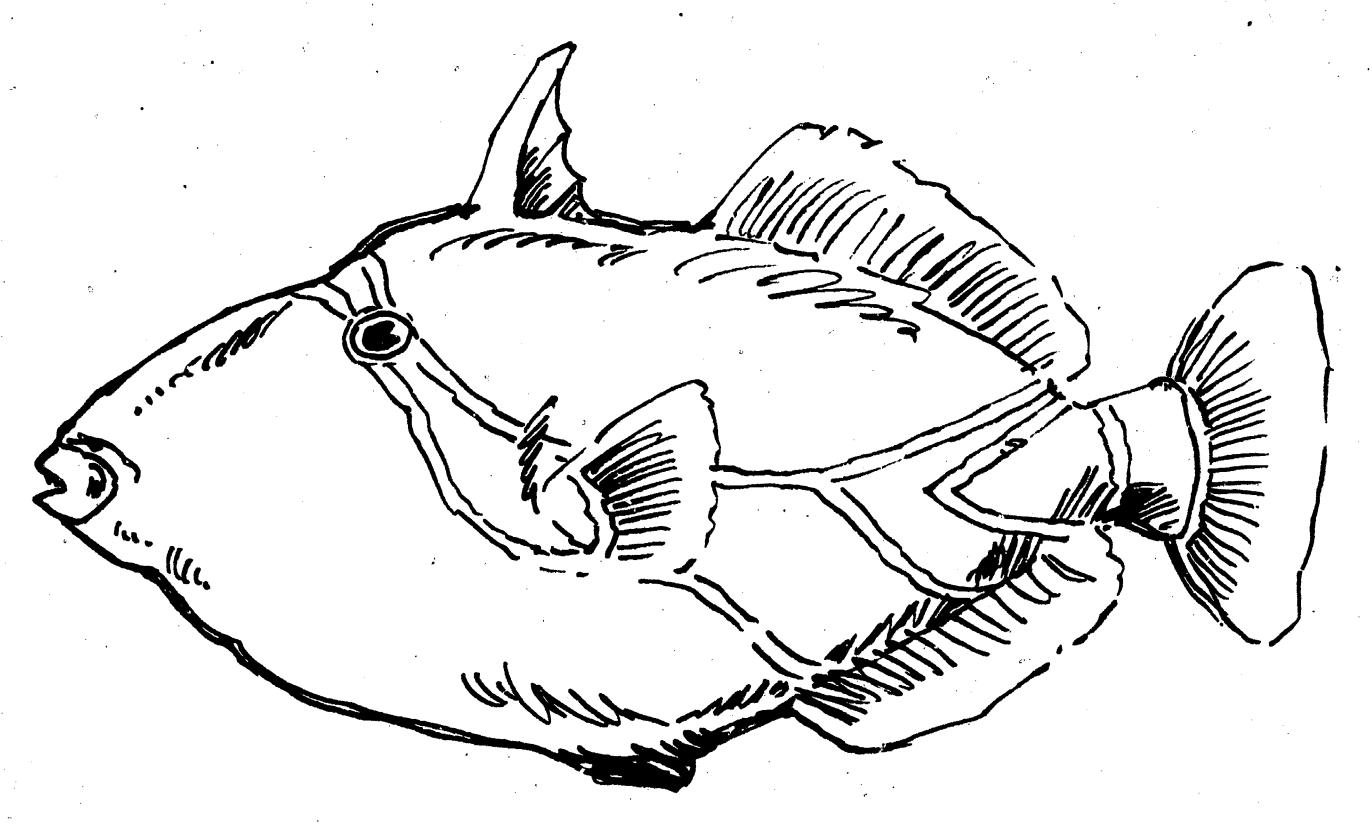
Words & Music by Irmgard Farden Aluli Edna Pualani Bekeart

Copyright 1970 Irmgard F. Aluli / Edna P. Bekeart Reprinted with permission.

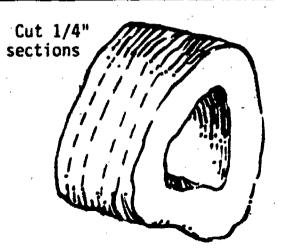
\*"humuhumu" is the Hawaiian family name of the trigger fish (Balistidae). Its scientific name is Rhinecanthus Rectangulus.

Gosline, William A. and Brock, Vernon E.:

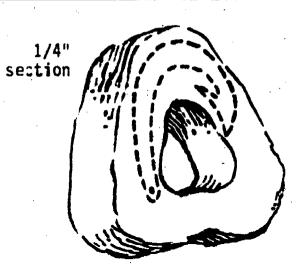
Handbook of Hawaiian Fishes U.H. 1960 Pp. 291-294



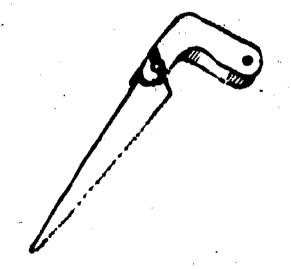




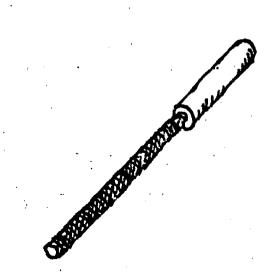
Clean and dry a soup bone. Using an electric band saw, cut the bone into 1/4" sections as shown by dotted lines.



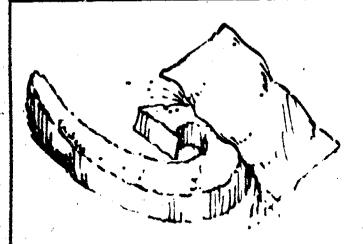
Draw fishhook shape on to a 1/4" section of bone.



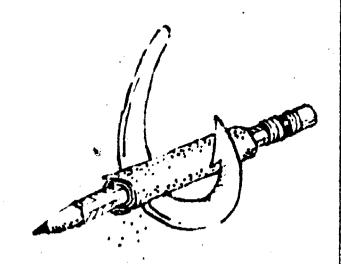
Cut out hook using a single edge saw.



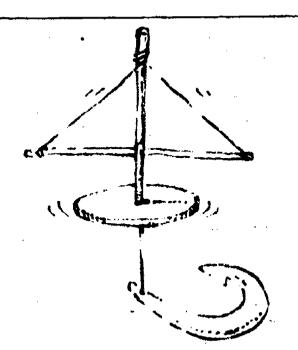
Use a rounded file or rasp to follow the shape.



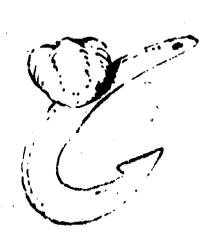
Sand with a randpaper until the edges are smooth.



Roll the sandpaper into a roll to do the rounded corners and edges.



Drill a hole for the <u>kaula</u> (string or cord)



Rub the finished bone with <u>kukui</u> nut oil.

#### "LIFE IN ANCIENT HAWAII - FOODS" - A SUPPLEMENT

#### <u>Fish - Procuring - Religious Implications</u>

Fish, including shellfish - main protein-giving elements. Pig, dog, chicken, wild birds furnished some additional protein, but because of comparative small supply they were marked for chiefs, not commoners.

Catch portioned to all within the 'ohana, the related community.

Chiefs became epicurean in their taste, demanded rarities, or regal service - such as the supplying of live fish from far places. (8:1)

Rule - take only part of supply of fish from a feeding place - other fish wouldn't move in if all fish gone. Fish fed cooked sweet potatoes (and later, other introduced vegetables, like pumpkin) until fish became accustomed to spot.

Visited the spot frequently and became fat. Belief that gods might become displeased by greediness and waste. Fishing prohibited during spawning season. (8:12-13)

Earliest fishing laws were carry-over of <u>kapu</u>. First written laws - 1839 by Kamehameha III. Some relinquishing of royal fishing grounds, others to protect from class abuse. 1900 - investigation of entire subject of fisheries and laws relating to fishing rights in the Territory of Hawai'i. Most complete review with recommendations made but not carried out as yet. (8:15)

Kahuna - prescribed certain fishes as acceptable to the gods - sometimes fish was essential object to offer the gods, as well as to eat after a period of illness. Fish used in many other ceremonies. (8:8)

Certain sea creatures, mostly sharks became 'aumakua (family god); were fed with regularity; recognized as individuals. Eel, turtle, octopus also became 'aumākua. (8:34)

 $\frac{K\bar{u}'ula}{vla}$  - (red  $K\bar{u}$ ) - lesser god of fishes and fishermen. Hina-hele (traveling Hina) was mate. Hina was female goddess of many names, signifying her duties and powers. Personal gods ('aumākua) regarded as friends and protectors of all faithful worshipers.

 $\underline{\text{Ko'a}}$  - each fishing shrine dedicated to a particular god, usually  $\underline{\text{Ku'ula}}$ , often adjacent shrines, one female, one male. Often dedicated to a certain fish. Many kinds of offerings to gods, mostly fish from catch. (3:34-47)

Images - usually made of stone - some carved with human likeness - some with fish form. Sometimes carried along on canoes or tied with lines to be near fish. (8:38-9)



Hawaiians believed each creature of the sea had its counterpart, <u>kauna</u>, or analogous form, in some living thing of the land - plant or animal. <u>Aholehole</u>, <u>Awa</u>, <u>Kumu</u>, '<u>Ama'ama</u>, and <u>Humuhumunukunukuapua'a</u> considered "sea pigs" and were substituted when pigs were scarce for ceremonies. (8:42-3)

Like all birds, all fish eaten. None poisonous as in some other parts of Polynesia. Gall of 'O'opuhue (Porcupine Fish) considered poisonous. Kumimi (crab) and 'Ea (sea turtle) considered poisonous. (9:4)

All crustacea esteemed as food. Echinoderms were eaten - 'Ina, Hawa'e, Wana - types of sea urchin; Pipipi (Nerita), Puho'okani (conch), Leho (cowrie), 'Opihi (Limpets) - all shellfish large enough to extract meat. (9:5)

Certain fish kapu to women (women were killed if caught eating these):

Ulua - Crevally - (Carangidae)

Kumu - Goatfish - (Upeneus porphyreus)

Niuhi - Man-Eater or Great Grey Shark - (Carcharodon carcharias)

Palaoa - Sperm Whale

Naila, Nulao - Porpoise

Hahalua - Manta Devilfish - (Manta birostris)

Hihimanu - (Craxy) Sting Ray - (Dasyatis brevis)

Pualu - Surgeon Fish - (Acanthurus fulginosus)

Kohola - Another species of whale (9:5)

During pregnancy, the Aku, 'Opelu, mullet, or any other white-fleshed fish was kapu. Couldn't salt any fish. If improperly salted so it might spoil, the child would have a periodical catarrhal condition of the nose, most unpleasant. Couldn't string fish as umbilical cord might strangle child. (5:18)

#### Procuring:

- 1. Children took what they could from shallows and shallow reefs and ate it raw or cooked. When older, imitated the elders, getting small fish and limu from sheltered waters, later from deeper waters.
- 2. Women gathered 'O'opu (Gobies) and 'Opae (shrimp) from mountain pools and streams by feel of hand, poking with stick, turning over stones, with nets; dammed streams when overflowed during freshets.
- 3. Po'o Lawai'a head fisherman and company of apprentices in employ of a chief, or may be chief himself. Fishing was life's occupation. Knowledge handed down and passed on included techniques of manufacture and use of apparatus needed; methods of capture; habitats of various fish; seasons of their spawning; their coming and going if the fish moved in schools; particular peculiarities of response to attempts at capture; judging of weather; divining the meaning of omens in dreams and clouds; recognizing stars as indicators of time and direction; bird flights in direction of fish schools. Had to have rapport with gods of fishing and own personal gods and know how to manipulate canoe and choose and train assistants. Watcher (kilo) on shore very important person directed and signaled fishermen. (8:5)



#### Methods:

- 1. Catching by Hand. Men and women searched rocks and shallows. Small calabash tied to waist to receive catch.
- 2. Spearing typical spear slender hardwood poles, 6 to 7 feet long with single sharp point. Also speared underwater and fished at night with kukui torches.
- 3. Slip Noose mostly fishing for sharks first stupified with 'Awa then noosed and dragged to shore.
- 4. Gill Nets, 'Upena Ku'u net with 2 to 2½ inch eyes set across fish run. Enmeshed fish later removed by hand. ('upena ho'olewalewa)
- 5. Seine Nets, 'Upena Pāloa 150 to 900 feet long, made with a head or top rope studded with wooden floats and a foot or bottom rope with stone sinkers. Favorite method of using seine nets surround school of fish on sandy-bottomed fishing ground. Nets set by fishermen in canoes under direction of kilo (watcher) or "look-out" in prow of canoe or on high promontary on shore. These nets used for present-day hukilau fishing. ('Upena kō lau)
- 6. Scoop Nets names of nets depended on type of fish to be caught. Pliable wooden rod bent into oval; ends met to form handle; fine meshed net fastened to wooden loop. Used by women to catch small fish and shrimp. Two parallel rods might be used to form rectangular two-handed scoop net. ('Upena ahuulu; houna; uluulu)
- 7. Dip Nets flexible rods supported a square or rectangular net. Dipped into water with a piece of bait to attract crabs. Or, a live Uhu tied through gill and mouth by cord which allowed it to swim naturally within the net. Fish served as decoy and attracted other Uhu into net. ('Upena 'āki'iki'i; pāki'iki'i)
- 8. Bag Nets net with a bag or enclosure into which fish were driven. Were large nets with small mesh. ('Upena kolo; papa; po'o) Used to catch Malolo (Flying Fish); 'Ohua (a small, highly prized fish); sharks; and others. Throw nets ('upena kiloi; kiola) were introduced by Japanese fishermen.
- 9. Traps, Hina'i usually made of fibers such as the aerial rootlets of the 'le'ie vine. Used in fresh and salt-water fishing.
  - a. Low, circular, basketlike with entrance on top. Stone sinker held trap in place. Bait crushed shrimp, crabs, Wana (sea urchin), or sweet potatoes attracted fish to opening.
  - b. Long, cylindrical set without bait in fresh water streams. 'O'opu (Gobies) swam into trap, lifted out of water usually by women.
  - c. Funnel-shaped used by women to catch shrimp in streams.
- 10. Fishhook and Line:
  - a. One-piece fishhook (Makau) made with pearl shell, human bone, dog bone and teeth, bird bone, whale ivory, turtle shell, occasionally wood. May be unbarbed or made with inner, lower, outer or shank barbs.
  - b. Two-piece fishhook wood with bone points or two pieces of bone.
  - c. Composite fishhook Aku (Bonito) lure (Pā hī aku) with pearl-shell shank, bone point and tuft of pig bristles; octopus lure (luhe'e) stone sinker, one or two cowrie shells, connecting-stick, bone or wooden point partly concealed by wisps of ti leaves.
  - d. Fishlines (ano) and nets ('upena) made from strong cordage of inner bark of the Olona (Touchardia latifolia) a nettle.

(Editor's note:

One method of fishing practiced by the Hawaiians is not mentioned in this Bulletin, that of hola or using the 'auhuhu and 'ākia plants to stupefy fish in the tidal pools. The twigs and bark of the plants were pounded and placed in the shallow pools. The fish would float to the surface in a stupefied condition. They were gathered in 'upena hola (nets) or baskets and cleaned. The poison in the plant did not make the flesh of the fish toxic to humans.)

e. Trolling lines - bait fish thrown from canoe. Unbarbed hook ('omau) attached to stout fishing pole (makoi) by short line. Fish hooked, pulled into canoe, unhooked. Process repeated as long as canoe was with the school of fish.

Properties and accessories - well-made canoes (wa'a) with trained paddlers (kanaka hoe wa'a); gourds (ipu) or calabashes ('umeke) with close-fitting lids to transport fishing implements (would float if canoe capsized) - gourds with stoppers for fresh water (hue wai); bait (maunu) of small fish and shrimp placed whole on hooks; live bait for attracting and exciting fish; palu or fish ground into a soft bait; squid-ink bait ground in special mortars and placed on fishhooks; heavy bait sticks smeared with bait and lowered into water to attract fish. (23:1-6)

Nai'a, Nu'ao - Porpoise- names often confused with Blackfish or Killer Whale. Some people ate porpoise, some didn't. Flesh very dark, "smells worse than shark" - odor very persistent. Kapu to women and to those to whom the shark was kapu as a personal god. Pest to fishermen as they got in the way when men were fishing. Sometimes used as shark bait. (8:97)

Nai'a - Common Dolphin - (Delphinus delphis) - porpoise and dolphin family - largest family of whales - grampuses, killer whales live mostly in salt water. Difficult to tell which species occur in Hawaiian waters because there are so many. Is a fish, not to be confused with porpoise. Dolphin chase flying fish. (13:161-4)

#### Preparation of fish:

1. Raw (maka) - usually ate whole fish - sometimes skin removed, or scales if tough or hard - sometimes gall bladder removed, sometimes internal organs removed. Fondness for all parts of viscera general throughout Polynesia. One who picked at fish being served, discarding flesh near bones, or skin not tough or hard, or dark flesh near bones or strongly malodorous, was to be pitied as one who didn't know how to eat fish - an uncultivated person.

2. Salted (miko or pa'akai) - fish salted (a) lightly then rinsed off; (b) cut up then salted; (c) mashed with fingers

(lomi) after salting.

3. Cooked (mo'a) - some preferred cooked such as mullet, Moi, Weke, Kumu: (a) baked in imu, wrapped in Ti (laulau); (b) broiled unwrapped either over hot coals, in hot ashes, or near hot coals to warm fish such as dried fish; (c) steamed in closed container (hākui); (d) broiled in wrappings of Ti (lāwalu).

4. Dried - method used when storms prevented fishing or for the kapu season: (a) partly dried - salted and dried to store for short periods of time; (b) well-dried - large fish scaled if necessary, cut into pieces without removing bones, thick pieces rubbed with salt, soaked in brine several days, then dried in sun. Dried hard - could be kept a year if necessary. If showed signs of not keeping, was cooked in imu and re-dried. Eaten as is or broiled. May be broiled and soaked in water to remove some of salt.

Preserving without cooking - Palu - preferred mullet, Manini, surgeon fish (Hepatus triostegus); 'Opelu, mackerel scad (Decapterus sanctaehelenae); 'Akule, big-eyed or goggle-eyed scad (Selar crumenoph-tha)mus); Kawakawa, bonito, little tunny (Euthynnus alleteratus); Aku, ocean bonito (Katsuwonus pelamys). Sometimes only meat from head used, together with viscera after gall bladder removed. Viscera cleaned, condiments chopped fine and added. Kept in a closed vessel to ripen several days. Sometimes whole fish allowed to ripen unsalted overnight or all day, then head, tail, bones, skin removed, seasoned. (8:19-28)

#### Preparation, Preservation, Storage, Conservation

#### Method: of Cooking:

1. Broiling - kū'ala - refers more to hot coals

pulehu - refers to hot ashes

palaha - food spread out flat on level bed of hot coals

'olala - food warmed near fire and turned from time to time

Breadfruit and unripe bananas broiled in skins to keep flesh from burning. Food wrapped in ti called laulau. Fish also

wrapped in ti called lawalu. Broiled food distinguished by naming process after name of food.

2. <u>Boiling - hākui, pūholo - steaming in a closed container.</u> Suitable clay for making pottery lacking in geological formation of oceanic islands, as compared to continental islands of Melanesia. Food placed in wooden bowls with water into which red-hot stones dropped. Some cooks alternated layers of food and stones then added water. Fish, greens such as <u>lū'au</u> (taro leaves), and <u>lau 'uala</u> (sweet potato leaves) especially excellent cooked this way. (When the <u>lau 'uala</u> is cooked it is called palula.)

3. Roasting and Steaming - Kalua - in the imu. Shallow hole dug, kindling heaped in center with larger pieces of wood on top. Layer of porous, pahoehoe stones added. Fire lighted. When stones are red-hot and wood has burned down: (a) stones are leveled; (b) covered with thin layer of smashed banana trunks; (c) ki leaves or grasses spread on layer of smashed banana trunks to prevent scorching; (d) laulau and other foods packed in, overlapped with ti, sections of banana leaves or other available leaves; (e) covered with large pieces of coconut cloth, or course kapa or plaited mats used only for this purpose; (f) may or may not be covered with earth depending on availability of earth. (17, 9:18, 7:97, 8:24)

Preservation - salt one of the necessaries - used with fish and meat, also as relish with fresh food. Manufactured only in certain places - women brought sea water in calabashes or conducted it in ditches to natural holes, hollows and shallow ponds on seacoast where it became strong brine from evaporation. Transferred to another hollow or shallow vat where crystallization into salt was complete. (3:123)

Salt pond and/or the salt flats in Hanapepe, Kaua'i - though to be a ledge of salt crystals. Process: (a) ponds, basins, wells, and drying basins cleaned of mud, debris, and scum; (b) salt water dipped from salt wells where water seeps into wells; (c) stands in curing or shallow standing basins for preliminary evaporation process for 2 to 3 days; (d) partially evaporated brine dipped into 8 to 12 drying basins - the two inches of solution takes about two days to dry out in good weather; (e) pans refilled every other day; (f) after first month, 3 to 4 inches of clear, brownish salt ready for bagging. (15)

Salt pans painted with solution of 'alae clay and allowed to dry before water is poured in. Salt crystals can be "colored" with the water and 'alae solution after drying process and when salt crystals are being crushed into smaller pieces with stone pounders. (Discussion - on tape - with Museum informant, June, 1967)

Storage: leftover foods and water stored in a cool place; decorated gourds suspended in koko nets and hung on a pole or rack near the house. (14)

Ponds used to store live fish; some enclosed where fish were fattened; some had gates allowing smaller fish to go in and out, but larger ones kept inside. Some were salt-water ponds for storing and fattening the mullet and awa, milkfish (Chanos chanos). Often, stones with limu added to pond to increase the food supply. Fresh and brackish water ponds used for b'opu, aholehole, and shrimps. (8:6)

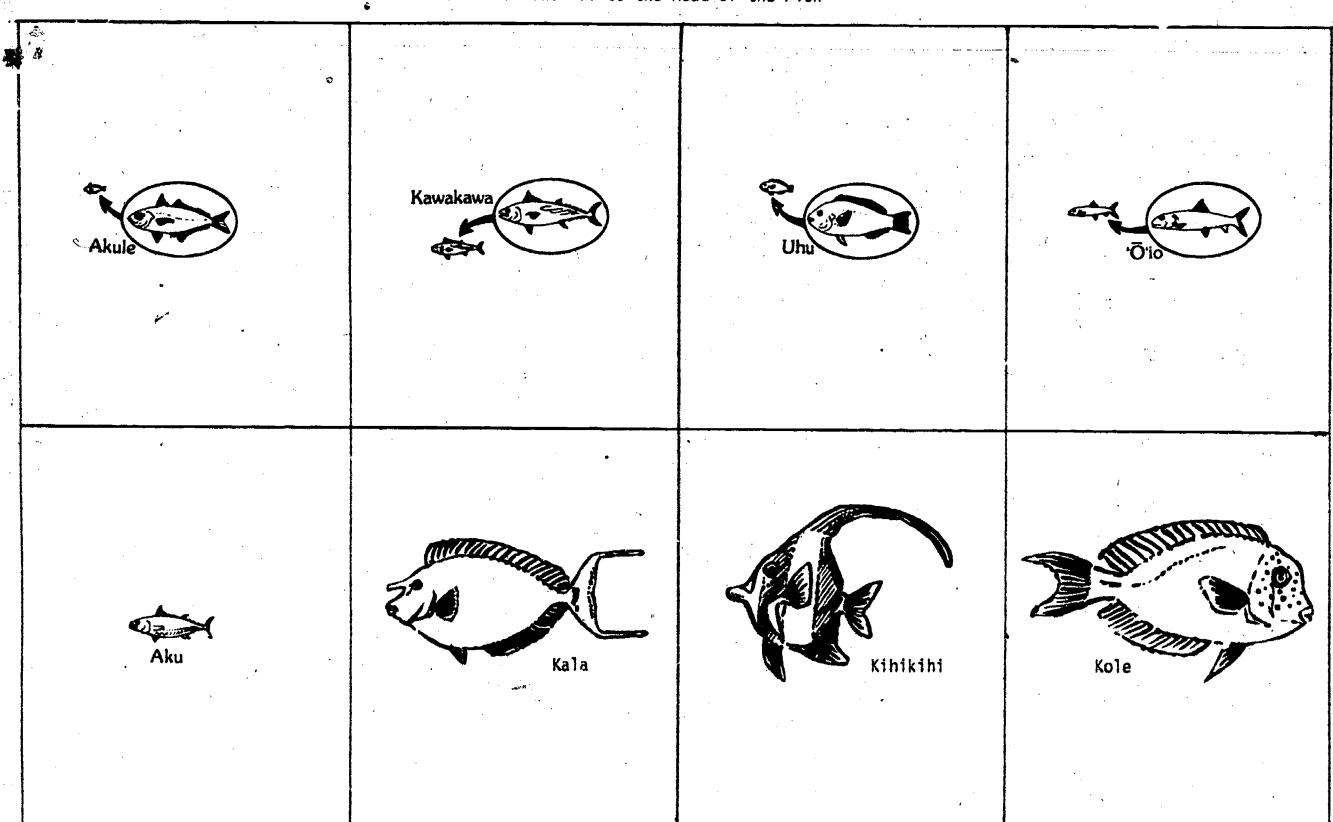


Ihara, K. Research Materials, Bulletin 15.

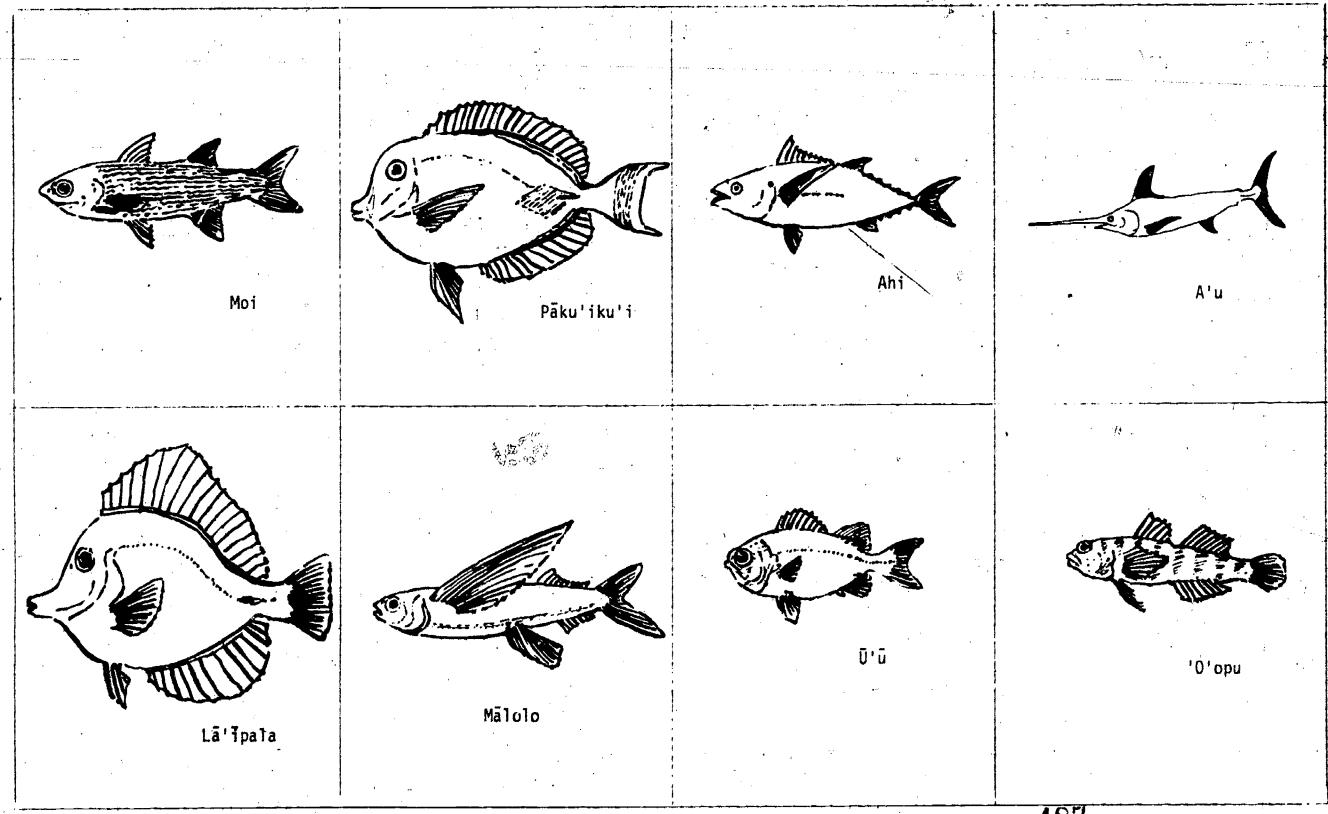
The following references form part of the bibliography for DOE/Bishop Museum Ihara Research Materials Bulletin Number 15 "'Life in Ancient Hawai'i - Foods' - A Supplement":

- 3. Hawaiian Antiquities, David Malo. Bernice P. Bishop Museum Sp. Pub. 2, Bishop Museum Press, Honolulu, Hawai'i. 1951.
- 5. The Hawaiian Planter, Volume I, E. S. Craighill Handy. Bishop Museum Bulletin 161, Bishop Museum Press, Honolulu, Hawai'i, 1940.
- 7. Ancient Hawaiian Civilization, Revised Edition, E. S. Craighill Handy and Others. Tuttle Co., Rutland, Vermont and Tokyo, Japan, 1965.
- 8. Native Use of Fish in Hawai'i, Margaret Titcomb and Mary Kawena Pūku'i. The Polynesian Society, Wellington, New Zealand.
- 9. Arts and Crafts of Hawai'i, Te Rangi Hiroa (Peter H. Buck). Bishop Museum Spec. Pub. 45, Bishop Museum Press, Honolulu, Hawai'i. 1957.
- 13. Animals of Hawai'i, Spencer Wilkie Tinker. Nippu Jiji Co., Honolulu. 1938.
- 15. "Kaua'i Saltmakers Ready," Honolulu Star Bulletin, June 21, 1967. (Newspaper clipping)
- 17. Cooking By Means of Native Ground Oven (Imu), Order of Activities. Paper by Loring G. Hudson, Bisis Eum, February 14, 1944. GN ETHNO PAM. 3475.
- 23. "Hawaiian Methods of Procuring Fish," <u>Teaching Units in Hawaiian Culture</u>, Unit 11. Donald D. Mitcheli, Kamehameha Schools, Honolulu, Hawai'i, 1964. pp. 13.





Ho'omāka'ika'i/Explorations 1981



ERIC Full Text Provided by ERIC

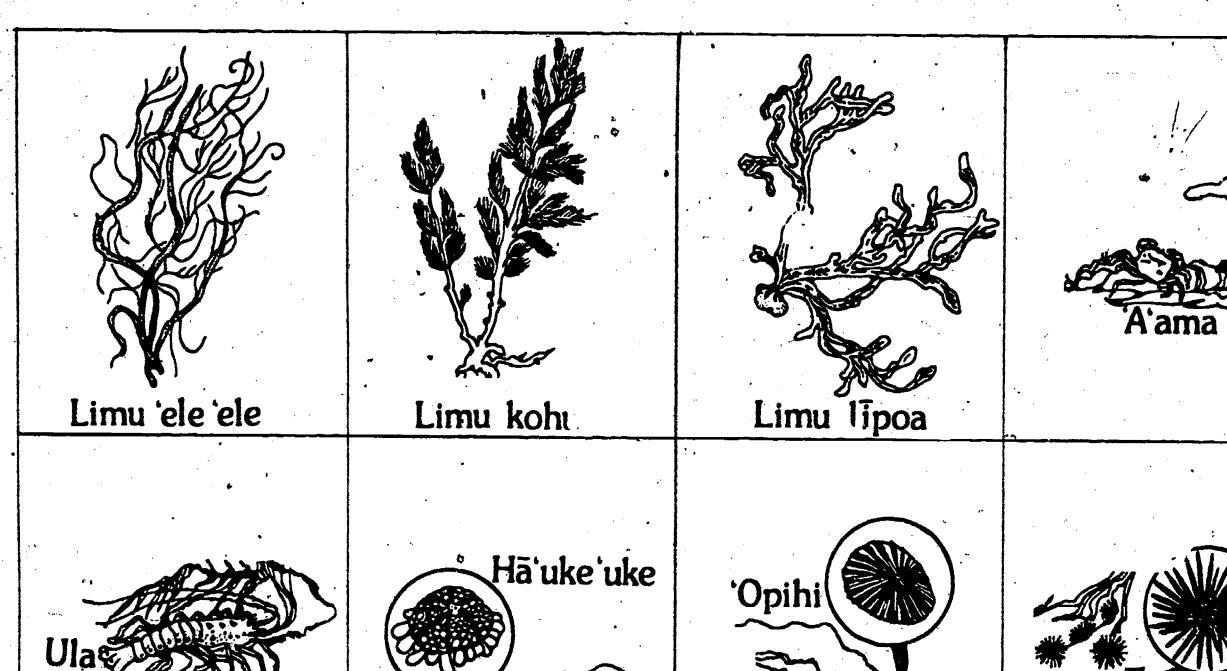
487
Ho'omāka'ika'i/Explorations 1981

	e e e e e e e e e e e e e e e e e e e		
Nenue	Mahi mahi	·Ōpakapaka	Ono
		<b>43</b>	
Aweoweo	Kūmū	Hīnālea	Palani
488			

ERIC

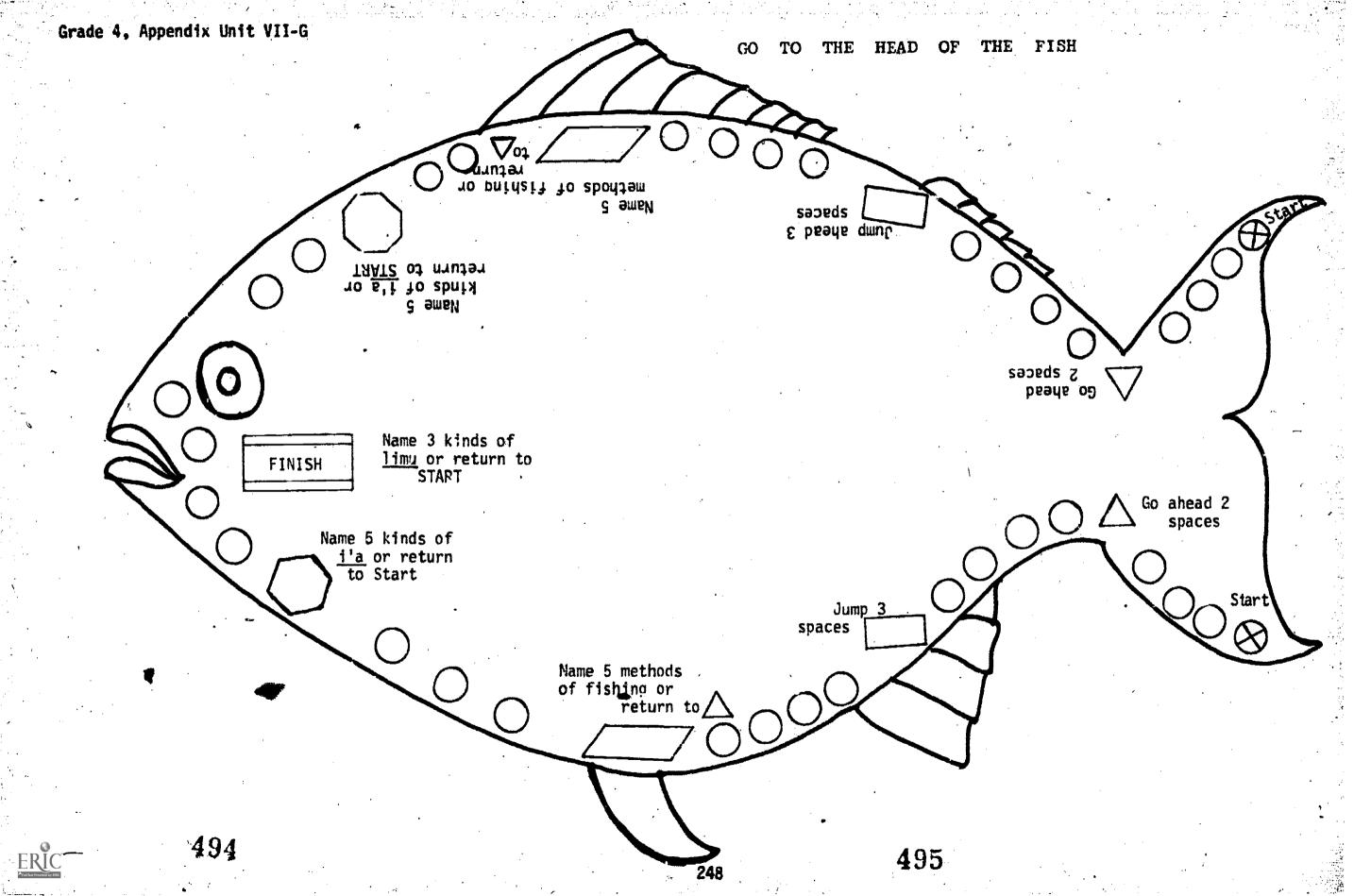
Full Text Provided by ERIC

Weke	'Ama 'ama	'Ōpelu	'Ahi
		,	1
Äholehole	He'e	Manini	Humuhumu- nukunukuapua'a

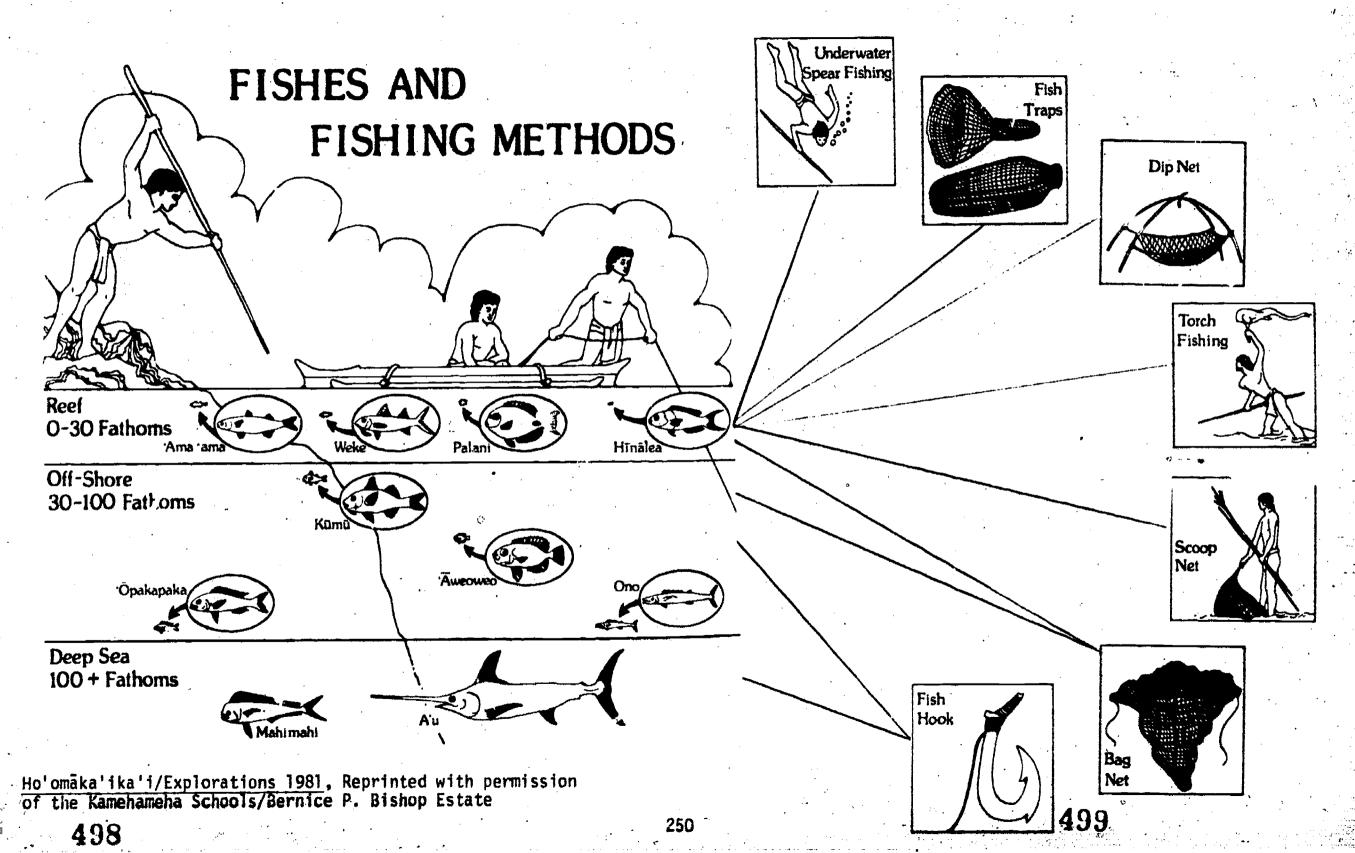




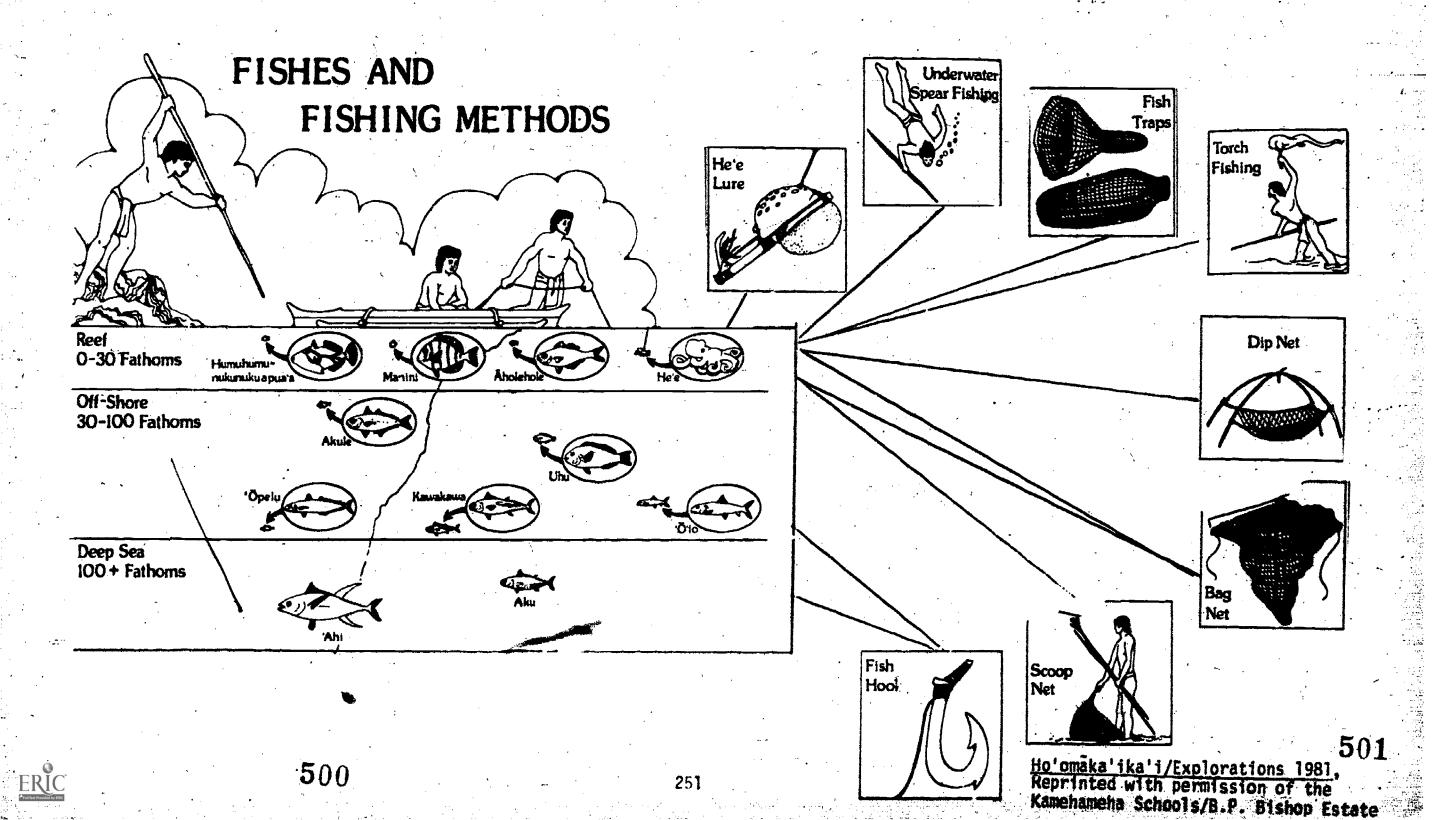
492 Ho'omāka'ika'i/Explorations 1981 Wana



ANSWER SHEETS FOR "Go to the Head of the Fish" and "Kanaka Lawai'a" Reel 0-30 Fathoms 'Ama'ama - 8 inches 'Anae -12 inches in fishpond or more Aholehole Manini Off-Shore 30-100 Fathoms Ōpelu Kumu Akule Deep Sea 100 + Fathoms 'Ahi

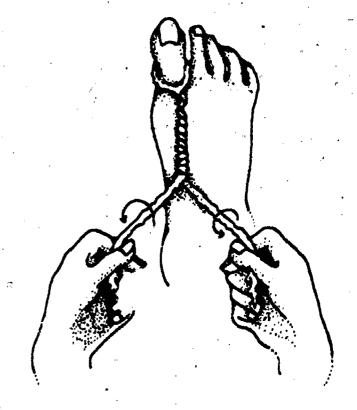


ERIC Full Text Provided by ERI



#### MAKING HAU CORDAGE (Twisted Method)

- Cut young <u>hau</u> saplings between 1" and 2" in diameter to workable lengths.
- Strip the bark and soak in water approximately 2 weeks. Change water frequently.
- 3. Clean off outer bark and throw away.
- 4. Leave inner bark in the sun until dry. The inner bark can now be stored in a dry place until ready for use.
- 5. Tear into strips about 1/8" wide.
- Choose a strip and begin by hooking it around your toe or something stable.
- 7. Twist each side in the <u>SAME</u> direction and then twist the sides around each other.
- 8. When one end gets short, join another to it by taking another strip and bending it so that a small portion of the new strip will be twisted into the original long strip, and the long end will be added to the short end.
- Continue until cord is long enough for a pendant onto which a polished kamani nut will be strung.





#### FISHING

#### by Margaret Young

Fishing was a constant necessary occupation in early Hawai'i. For some people fishing was an occupation, for others it was a duty to fulfill, for most people it was a pleasure, and for chiefs it was a favorite sport.

Everyone knew some techniques for getting fish. Children freely took what they could from the shallow reef areas and ate their catch raw or cooked. They learned more techniques for fishing as they grew older. Women spent long hours in the shallow waters gathering anything that was edible. Besides helping to provide food for the 'ohana, the women also had that time to socialize with the other women. The women were also the ones who fished in the mountain streams and pools for 'o'opu and 'opae.

Fishing was one of the most skilled occupations of the Hawaiian men; and for those for whom it was a profession, it was their life occupation. The polo lawaila had extensive knowledge of the sea and he was held in high esteem. His knowledge had been passed on from generations before him and he had to choose and train those he wished to become his apprentices. There were many methods of fishing and each method required different equipment and training.

Fishing was done at night and during the day. There was inshore fishing, offshore fishing and deepsea fishing. Some of the variety of methods used to catch fish were: (1) catching fish by hand; (2) spearing; (3) fishing with a slip noose; (4) net fishing with 'upena ku'u, 'upena paloa, 'upena opae, 'upena papa'i, 'upena uhu, and bag nets; (5) fishing with traps (hina'i); and (6) fishing with fish hook and line. The hola method of Stupefying fish was also practiced using the narcotic juices of two native plants -- 'auhuhu and 'akia.

The fishermen required an assortment of properties and accessories. They needed well-made canoes with trained paddlers. Gourds or calabashes with close fitting lids were needed to contain their fishing implements. The gourds were able to float if the canoe capsized and thus protected the fishing implements. Gourds were also needed to store fresh water. The fishermen needed small fish and shrimp for use as bait, for live bait was generally used.

Ponds were built and used to store and fatten fish and also to raise fish. Salt water ponds were used mainly for storing and fattening the 'ama'ama (mullet) and the awa (milk fish). Fresh and brackish water ponds were used for the 'o'opu, aholehole and for 'opae (shrimp). Another storage place for fish was in the taro patches that were found almost anywhere.

There were a great many religious ceremonies connected with fishing, and there were many <u>kapu</u> to be observed in everything connected with fishing. Every <u>ko'a</u> (fishing shrine) had in it a fish god or <u>Kū'ula</u>. Each fisherman had his own <u>kū'ula</u> which was any stone god, carved or natural, used to attract fish and/or cause them to be plentiful. <u>Kū'ula</u> shrines were started by 'Ai'ai in honor of his father, Kũ'ulakai, who lived at Aleamai on East Haui and built the first loko i'a (fish pond). Fishermen visited their <u>kũ'ula</u> before and after fishing since they believed that supernatural help was needed to help them succeed in their fishing. Appropriate ceremonies were performed and small



 $k\bar{u}'ula$  were often carried out to sea in the <u>wa'a</u> (canoes). Large  $k\bar{u}'ula$  were set up along the shore to guide the kanaka lawai'a (fishermen).

Certain <u>kapu</u> were observed when fishermen prepared their fishing gear and when the canoe was launched. Certain customs were observed when the first fish was caught. When a new canoe was christened or a new net or hook was used for the first time, particular ceremonies were carried out.

Careful preparations needed to be made before going fishing. Strict <u>kapu</u> were observed as hooks were made and lashed. The entire family had to observe the <u>kapu</u> in strict silence. A prayer was offered before the fisherman set out and while he was away the wife could not sleep, nor gossip, or quarrel.

The early Hawaiians was constantly aware of the need to conserve the supply of all resources which was strongly linked to their religious belief that the gods would be displeased by greediness or waste. <u>Kapu</u> protected the fish and other sea life during the spawning season. Fishing grounds were never depleted as the <u>kapu</u> were adhered to by all the people. The heavy penalties for breaking the <u>kapu</u> held the people in strict discipline. This, along with their strong religious beliefs that they act according to the will of their gods, guaranteed the conservation of the sea as a great source of food for the Hawaiians.



# MALAMA

Grade 4. Unit VIII	
CONTENT AREA	EMPHASES
SOCIAL STUDIES	
	The Hawaiian <u>kauhale</u> (housing compound) Location of the kauhale
	Types of <u>hale</u> Process of building a hale
	Materials and tools Role of religion
	Roles of the <u>'ohana</u> members Furnishings
SCIENCE	Investigation into how the early Hayadians enlacted sites for their hale (hayan)
	Investigation into how the early Hawaiians selected sites for their <u>hale</u> (houses) Factors considered were the: lay of the land
	rains, winds tides
	location of burial sites, <u>heiau</u> , stone walls <u>kapu</u>
LANGUAGE ARTS	
	Listening to a reading and identifying  The various posts used in building the framework of a <u>hale</u>
	The Hawaiian vocabulary for the components of the framework
₹ .	Reading and discussing stories and legends about how children learned to become experts
•	Interviewing community people
	To gather information about life in a kauhale (commune)
	To give the children an opportunity to relate with community elders



# LEARNER OBJECTIVES APPENDICES See Early Hawaiian Life pp. 172 - 173 for more objectives. • Describes the way of life of the early Hawaiians as a result of adaptation to the environment. Describes how availability of certain materials and paucity or lack of other materials directly affected the development of many elements of Hawaiian material culture. Contrasts modern ways of providing warmth, communication and shelter with the way these things were carried out in early Hawai'i. Describes the way of life of the early Hawaiians as a result of adaptation Unit VIII - A The Hawaiian Homestead and pictures to the environment. of kauhale, pp. 265-268 Describes some of the natural phenomena in Hawai'i using their Hawaiian names. Describes some of the physical landmarks and attributes of Hawai'i, natural and human-made, using their Hawaiian names. (cliff, mountain, fish pond, river) Unit VIII - B Ka Hale (Diagram of the frame of Responds to questions and makes comments using appropriate single words or Hawaiian phrases. a hale), p. 269 • Imitates with correct pronunciation the Hawaiian words, expressions and phrases modeled by the teacher or kupuna.

Identifies some methods used by the Hawaiians for finding answers to questions and for solving problems such as referring to legends or keen observation.

- Relates how the Hawaiians adapted foreign materials and technology to their needs when these things became available.
- Compares ancient Hawa'iian family life to the student's family life.
- Describes the differences between the generalized education for living and specialized training that children in ancient Hawai'i received and the kinds of education a child in modern Hawai'i receives.

CONTENT AREA

EMPHASES

LANUGACE ARTS (CONTINUED)

Songs of beloved homes about which songs have been written

Composing simple songs that express aloha for the home

Composing simple songs that express aloha for the home
Using the Hawaiian implements to express feelings
Singing songs about different locations
Acculturated songs dealing with hale

#### LEARNER OBJECTIVES

#### APPENDICES

- Identifies some legendary figures such as Pele, Maui and Hina, Hi'jaka and Lohiau and discusses some of the stories connected with these figures.
- Discusses some influences of the historical events which have taken place in the student's community and surrounding areas.
- Performs roles in simulation activities illustrating individual rights and responsibilities in a group situation.
- Listens and accepts opinions of others in group discussions.
- Recognizes that the Hawaiian culture and way of life is now a part of America's multi-ethnic society.
- Sings selected Hawaiian songs introduced by the teacher while playing rhythmic or harmonic instruments ('ukulele, guitar or autoharp) in time with the beat.
- Accompanies a Hawaiian chant using a rhythmic instrument such as an <u>ipu</u>, <u>pū'ili</u>, <u>kala'au</u>, <u>ka'eke'eke</u>, or <u>'ili'ili</u>.
- Creates melodies and lyrics concerning a Hawaiian theme using English and Hawaiian words, expressions and phrases.
- Explains that chant was the original Hawaiian vocal music and that instrumental Hawaiian music as we know it today was influenced by all the immigrants who later came to Hawai'i bringing new ways of singing and new instruments with which to add harmonics and texture to the music.
- Defines indigenous and acculturated in relation to the fact that most cultures have music that is distinctly their own and they also have music that is a mixture of their own and that of other cultures with which they have had contact.

- Unit VIII C "Ka Inu Wai/Maika'i Ka Makani O Kohala," p. 270
  - D Teaching Ipu Rhythms, pp. 271-272
  - E Ka Mokupuni 'O O'ahu, p. 273
  - F "You Come My House," pp. 274-275

#### \*SCIENCE

#### LANGUAGE ARTS

#### MUSIC .

- The following inquiry activities deal with how the Hawaiians may have determined the best location for a typical Hawaiian hale.
  - 1. Discuss
    - a. The purposes of a house today
    - b. The purposes of an early Hawaiian hale
    - c. The similarities and/or differences in purposes
  - 2. Have the children recall, from their social studies activities, the materials that were used to build a Hawaiian hale.
  - 3. Discuss the strength of the structure in relation to the strength of the makani (winds) and ua (rain).
    - a. Have the children recall their own experiences in their own homes today and ask, "Do you suppose a structure built of wooden posts and a simple framework can withstand the heavy rains and strong winds we have in Nawai'i during the winter months?"
    - b. Read: Appendix Unit VIII-A, pp. 265-266.

      Show the pictures of the Hawaiian hale to the class. Have them state reasons why they think that the Hawaiian hale could or could not withstand the wind and rain.

- These language activities deal with the house building process of early Hawai'i. There are language arts activities listed in Early Hawaiian Life, pp. 179-180.
  - 1. Read: Malo. Hawaiian Antiquities, excerpts 1-19, pp. 118-122. These paragraphs describe the steps in building a Hawaiian hale as told by Malo.
    - a. Prepare a large sketch of the figure found on p. 119 of Malo's book.
      As you read paragraphs 4-19, label the parts of the house frame.
    - b. Have the children repeat the words after you. See Appendix Unit VIII-B p. 269 for the Hawaiian vocabulary.
    - c. Leave the chart up to allow the children time to practice the pronunciation of the words.
    - d. Review the <u>He aha kēia</u> pattern with the children:

Ask: He aha kēia? What is this? (point to a part of the frame, such as to the main post)

Answer: He pouhana kenā. That is a main post.

2. Talk about how children learned in early Hawai'i. Have the children discuss the "education" of the early Hawaiian children.

1. Teach the children some songs about hale or home. There are many homes throughout the islands that have been written about in songs. Have the children "seek out" these songs for u e in the music classes. Some of the more popular of these songs are listed below. Use the 'ukulele, guitar and/or autoharp for accompaniment.

See: Elbert and Mahoe. <u>Na Mele O Hawail Nei</u> for songs.

- a. "Ainahau" p. 30 this song describes the beautiful home of Princess Ruth Ke'elikolani who later gave it to her god-child, Ka'iulani. The song was written by Ka'iulani's mother, Princess Likelike, sister of Kalākaua and Lili'uokalani. (This song was introduced in Unit Vb. p.
- b. "Old Plantation" p. 83 this song honors the Ward estate built in 1880 at King and Ward streets. The Neal Blaisdell Center now stands there. The song describes the beauty of the estate and the love for the home.
- c. "Ku'u Home O Nā Pali Hāuliuli"
  p. 69 this song was composed by
  Mrs. Eddie Hopkins. She describes
  her home Halekou in Kāne'ohe and
  the peaceful pleasure and thoughts
  of the home.
  (This song was introduced in Unit
  IV, p. 95.)

#### SCIENCE.

LANGUAGE ARTS

a. Ask

MUSIC

c. Set up a chart to show their inferences.

Could the Hawaiian hale withstand the winds and rains?

Evidence for Evidence for "yes" inquiries "no" inquiries

- Have the children interview their kupuna or some other knowledgeable person in the community.
- Visit the Bishop Museum, Polynesian Cultural Center, Waimea Falls Park, Lapakahi Stat? Park, or any other site that has Hawaiian hale. Encourage the children to ask questions of the guide and to observe structures carefully to estimate strength.
- Read excerpts from the following sources:

  Ap le. The Hawaiian Thatched House, pp. 7-10.

  Buck. Arts and Crafts of Hawai'i, Vol. II,

  Houses, pp. 75-82.

  Handy. Ancient Hawaiian Civilization,

  pp.71-80.

Based on their research, have the children decide:

a. Where hale were built.

- 1) Did the Hawaiians have schools like we do today?
- 2) How does a person learn to be a good carpenter today?
- 3) How did a person learn to build a house or hale in early Hawai'i?

(Encourage the children to respect each other's rights and opinions in the discussions)

- b. Read: Early Hawaiian Life, p. 206
  to the children. Discuss similarities
  and differences in today's life as
  compared to life in early Hawai'i in
  terms of: who went to school, where
  they went to school, how they learned,
  and who did the teaching.
- c. Have the children imagine themselves living in a kauhale in early Hawai'i.
  - 1) Pretend you have been chosen to become a kahuna kuhikuhi pu'uone (expert in house site selection). You are only 6 years old and you have been chosen to study under the kahuna to become a house site selector.
  - 2) Write a creative story describing your experiences living with this kahuna kuhikuhi pu'uone.
- 3. Talk about the historical events that have taken place in the community and surrounding areas.

- 2. Encourage the children to compose songs about their own homes. Have them think about all the nice things that surround the home and the feelings that they get when they are in the home. Have the kupuna help them insert some Hawaiian words that they have already been exposed to.
  - E.g., Gentle are the makani that blow across the pu'u. Sitting in my home at 'Alewa I think of the aloha of ku'u hoaaloha The la begins to lower in the sky Casting a peaceful calm across the city. Aloha, e Kahale'olu. (house of pleasantness)
- 3. Learn chants and songs about historically famous areas throughout the islands. Use the Hawaiian <u>hula</u> implements and musical instruments.
  - a. "Ka Inu Wai/Maika'i Ka Makani O Kohala" See: Appendix Unit VIII-C, p. 270.
    - After talking about Kohala as the birthplace of Kamehameha, introduce a song that describes the wind that blows through Kohala.
    - 2) The 'ukulele keys should be on the learning chart.
    - 3) Have the children beat the pa kāhela on the <u>ipu</u> (gourd).

See Appendix Unit VIII-D, pp. 271-272 for instructions.

ERIC

\*Full Text Provided by ERIC

# SCIENCE

- b. What direction the hale would face to get ventilation through the single door and yet avoid the strong winds that sometimes blow over the islands.
- c. Whether or not there were bugs or insects to contend with; if so, how they affected the living comfort in a hale.
- d. The character of the <u>hale</u> during the seasons:
  - 1) How did the structure of the house keep the Hawaiians cool during the summer? Warm during the winter?
  - How did the <u>hale</u> fare during rainy periods? Was there a great deal of deterioration during the wet season? Why?
- 7. Discuss the following suppositions
  - a. Suppose there were termites in early Hawai'i.
  - b. Suppose there were mosquitoes. How would these insects affect the architecture of the hale? How would they change the use of the hale?
  - c. Suppose there were earthquakes. If you lived by the ocean, how would they affect your hale? What would happen if you lived in a cliff area and an earthquake occurred? Would the same be true today with modern houses?

#### LANGUAGE ARTS

- E.g.: Kohala students an talk about the birthplace of Ka ehameha I.
  Mokapu students may discuss Heleloa Beach on Mokapu where the Hawaiian gods met to create the first
  - O Hawaiian man, according to legend.
  - a. Conduct a lesson on "How to interview effectively."
    - 1) Make a list of questions the children feel are important to be answered.
    - 2) Talk about communication techniques: listening with undivided attention, showing aloha and ha'aha'a (humility), speaking in the kanaka o'o (adult) realm.
  - b. Encourage the children to interview people within the community about early Hawaiian events and those that took place later when the immigrants began to arrive. Have them tape these interviews and share them with the class.
    - 1) Practice conducting interviews in the classroom.
    - 2) Prepare with the children a list of questions to use in the interviews.
  - c. Prepare a map of your area. As the children share their tapes, have them pinpoint the location of their events on the map. Write a one to two sentence description of the event on a wall chart. 262

#### iusic.

- b. "Kāne'ohe", p. 61 the third verse of this song describes Mūkapu where man, according to legend, was formed.
- c. "Pūpū o 'Ewa", p. 87-88.
  - 1) Read a legend about the moku of 'Ewa. Pūku'i and Curtis. Water of Kāne, "Sharks of Pu'uloa", pp. 153-157.
  - 2) Locate the <u>moku</u> of 'Ewa on the map found in Appendix Unit VIII p. 273. Point to Pu'uloa. Ask children to describe events that took place at Pu'uloa since the building of the dock as describ in the story.
  - 3) Read the translation of the son to your students. Talk about:

Ka'ahupāhau - the shark goddes's
Ka'ala - highest mountain peak
on the Wai'anae range
Kiu - wind that blows through

- 4) Teach the song using the <a href="ukule">ukule</a>
  <a href="ukule">ukule</a>
  <a href="ukule">and autoharp as accompaniment</a>.
- d. There are many othersongs that can taught about well known places throughout the islands. Gather these songs from your areas and tea them to the students.

# SCIENCE

#### LANGUAGE ARTS

#### Music

- 8. Formulate some generalizations
  - a. The early Hawaiians had to be knowledgeable in meteorology and architecture in order to build shelters strong enough to withstand the natural elements of weather.
  - b. The early Hawaiians made use of the resources of the environment to provide shelters for themselves.

- d. After all the tapes have been shared, the children may be encouraged to construct a timeline of the events.
- e. Find stories about legendary figures such as Pele, Maui, Hina, Hi'iaka and Lohiau. Locate where they lived on the islands and read about the area.
- f. Plan field trips to ancient house sites to see how the houses were laid out. Point out remnants of stone walls, etc. E.g., Waimea Falls Park has a kauhale area that is being reconstructed.
- Have the children write a description of life in the kauhale many years ago. Encourage them to use Hawaiian vocabulary that they learned in social studies while studying the housing unit. Have them share their descriptions in class.
- h. Talk about the hospitality of the early Hawaiians.
  - Welcoming strangers to come in and share whatever they had to eat. <u>Mai e 'ai!</u> (Come and eat!).
  - 2) Ask: Do people in Hawai'i still do this? What other customs have we picked up from the early Hawaiians, Japanese. and Chinese?

6. Introduce some songs that have influences of other cultures in them

Song: "You Come My House"

See: Appendix Unit VIII-F, pp. 274-275.

- a. Talk about the introduced foods mentioned in the song and the creole Hawaiian English used in the song.
- b. Have them listen to the song and try to identify the tune. (It is very similar to "Polly Wolly Doodle.")
- c. Talk about the changes in the harmonics and texture of the music.
- d. Teach the song.

**SCIENCE** 

LANGUAGE ARTS

Music

- 9. Have the children study the pictures in Appendix VIII-A, pp. 267-268. Have them verbalize the qualities of the environment there that made the people want to build their houses there.
  - a. Ask:
    - Where do you think this housing compound might have been built? (Waimea Valley, Makaha Valley, Hālawa Valley, etc.)
    - 2) Describe the weather and the general environment and tell why this 'ohana chose this particular location.
  - b. ETV viewing Science in Hawai'i,
    "Hawai'i's People". This video explains
    the lifestyle in Waimea Valley many
    years ago; it relates the human population of Hawai'i and its increase until
    diseases were introduced and then its
    present increase today with tourism.

- 3) Have the children generalize that Hawai'i is a multi-ethnic society.
- i. Culmination:

Have the children plan a large mural depicting a typical <u>kauhale</u> in their locality showing plants, water sources, different types of structures, etc. The actual artistic work on the mural will be done as an art activity.



#### THE HAWAIIAN HOMESTEAD

#### by Margaret Young

A typical homestead of the Hawaiian family consisted of several houses. Unlike our homes which contain different rooms, the Hawaiians had a different house for each room. There were three basic functions of the Hawaiian house - for storage, shelter and security. Storage was needed to house possessions against sun, wind, rain and theft. Everyone needed shelter from sun, wind and inclement weather. Hawaiians spent much of the time outdoors but whenever there was a special kapu, they needed to hide quietly in their houses until the kapu was lifted.

A homestead usually included a common or sleeping house, a men's house, and an eating house, for the women and the very young children. The separate structures were as convenient as they were necessary because of the <u>kapu</u> system which forced males and females to eat and work separately.

The <u>hale noa</u>, or sleeping house, was free of any <u>kapu</u> and was the only place where men, women and children could be together. It was a common room that was shared by all and lived in at night so, by necessity, it was the largest of the structures. The interior was divided into two areas. The side near the back wall was reserved for sleeping and no one was allowed to walk or sit or play in the area. It was the custom for everyone to sleep with their feet toward the wall as a safety precaution against unexpected attacks. It was kapu to sit or step on the floor where the heads rested. Custom also determined where each person could sleep. Eating was never allowed in the hale noa but family members could visit with guests, chat, play quiet games or tell stories in the area near the doorway.

The hale mua was a smaller house near the hale noa, where the men made and stored their tools and weapons, carved wooden bowls and made cord for lashings and fish nets. Family gods or 'aumakua were kept here on an altar. It was the responsibility of the head of the household to place food on the altar and recite prayers daily. Women were not allowed in the hale mua.

Nearby were the <u>imu</u> which were used to cook the food - one for the men and one for the women. <u>Hale imu</u> or <u>hale kahumu</u> were shelters constructed over the <u>imu</u>. Firewood and cooking implements were stored there. The <u>kapu</u> system imposed much work on the men as it required them to do all the food preparation and cooking.

Another functional structure was the <u>hale kua</u> which was the women's workroom. Here the women beat <u>kapa</u>, made mats, and stored their materials, tools and finished pieces of <u>kapa</u> and mats. A fence was usually built around the <u>hale kua</u> to allow the women to dry their <u>kapa</u> safely.

Set apart from the rest of the structures was a tiny house called the <u>hale pe'a</u>. Women were required to stay there during their menstrual period as they were considered to be contaminated and therefore could not have any contact with the men.



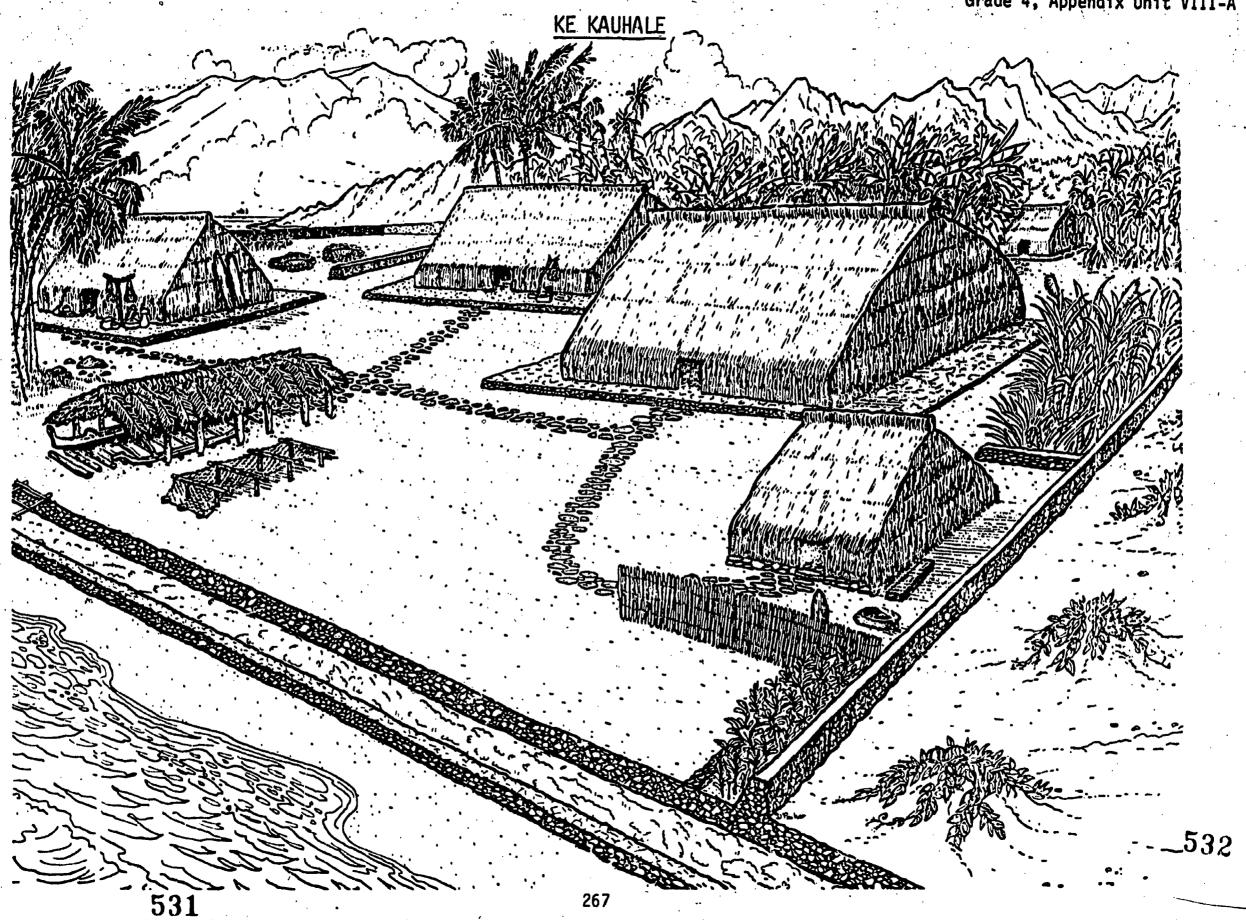
People tended to gather together near good fishing grounds or near their fields of taro and sweet potato. Houses were situated along the shore or along streams, right beside a <u>lo'i</u> or on the slopes or hillsides.

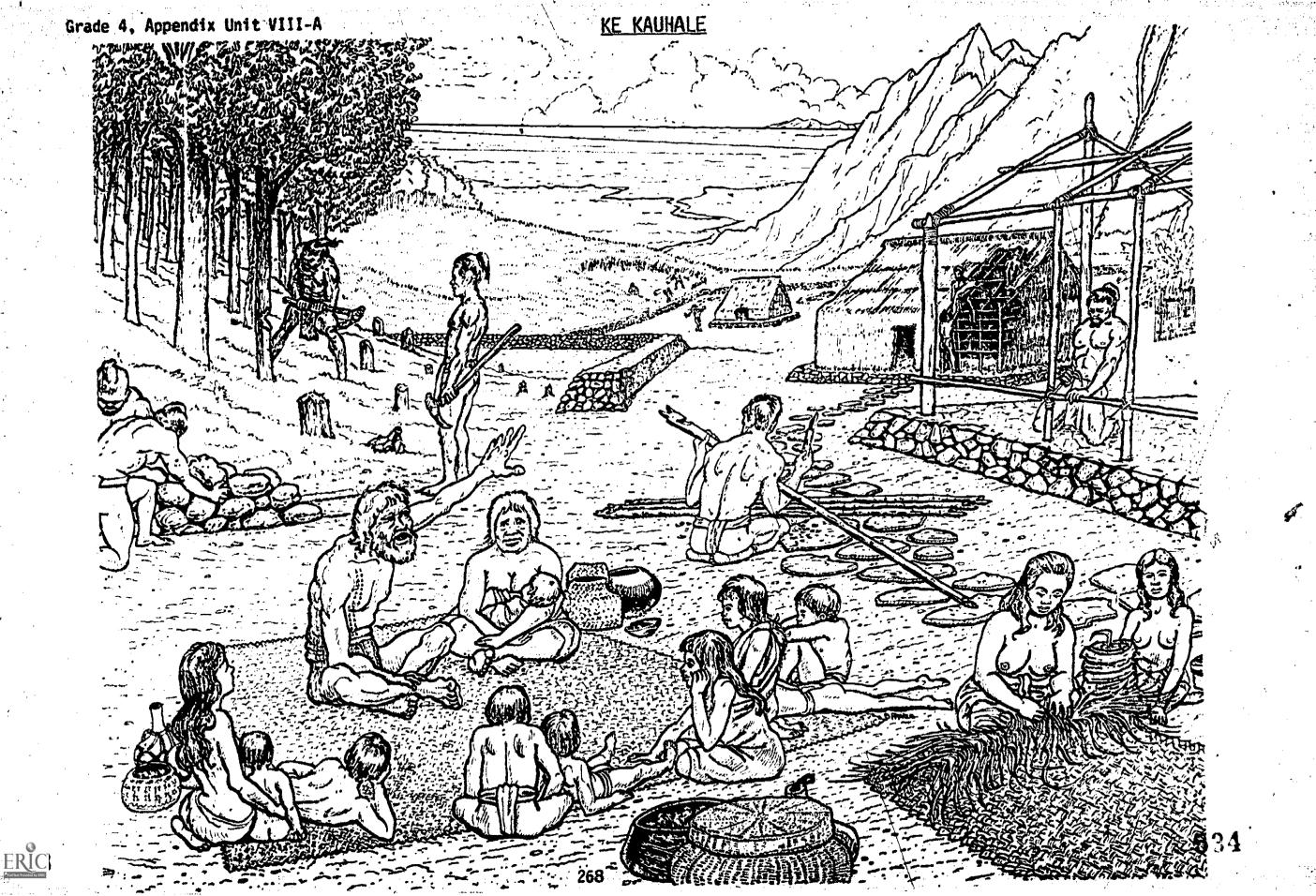
A farmer usually included in his homestead, a hale papa'a or hale hoahu which was a storehouse built above the ground to house his tools, plant cuttings and his harvest.

A fisherman often had a large structure, the halau wa'a, in which he kept his canoe, paddles, fishing equipment and tools. The shade provided by the halau wa'a greatly benefited the fisherman as he worked long hours on his hooks, lures, lines and net.

A family of commoners might live in a single one-room house, the <u>hale noho</u>, but families often joined others of their kin in a related group called the 'ohana. They shared some houses and formed a <u>kauhale</u>. There was no equivalent of a village as we know it and if several <u>kauhale</u> were close to each other, the term <u>kauhale</u> was still used. The terrain of the area, water supply and the occupation of the family determined the location of the <u>kauhale</u>. A typical Hawaiian family homestead was relatively isolated since <u>kauhale</u> were usually widely scattered. Families were accustomed to solitary living and had only occasional intercourse with neighbors or relatives.

A chief's household consisted of a number of houses and were nearly always built near the best fishing places. The houses of his relatives and retainers were built nearby, as were the homes of the men working for him. The houses of the chiefs differed from those of the commoners. They were large enough for a person to be able to stand up in one, whereas the house of a commoner was much smaller. The chiefs' houses might also contain an extensive array of furnishings of excellent workmanship and beauty.





'ahopueo



<u>Kua'iole</u> - a rafter pole that ran the length of the house on top of the <u>kaupoku</u>

<u>Kaupoku</u> - ridge pole that ran the whole length of the house

0'a - rafters

Halake'a - upright posts within the house

Pouhānā - the important two endposts -

Pou kihi - four corner posts

Pou kukuna - posts standing along side the pouhana

'Ahopueo - small sticks to which the thatch was attached

Kua'iolerafter pole <u>Kaupoku</u> ridge pole -<u>Halake'a</u> post inside the house that supported the . kaupoku 0'a rafter smaller sticks to which the thatch was attached 301 Pouhānā main post -Pou kihi corner post

Pou kukuna end posts other than pouhānā and pou kihi



### KA INU WAI.

#### KOHALA'S BREEZES

DAVID NAPE. WILLIAM SHELDON Allegretto. ka maskas moo Kossila . . . la . Noga - lii kā-hela ika a cross the sil . ver sand, wa - ters famed for their be side the wa . ters stand, While just bid Copyright 1869 by CHARLES A. K. HOPKINS. All rights reserved.



#### Teaching pu Rhythms: Upper Elementary

Materials Needed: Ipu - gourd

Pale - Pad to cushion hitting of ipu on the floor or other hard surface

Empty bleach bottles or similar kinds of plastic bottles

#### Teaching Pa.

Have children slap their laps and say "u".
 Do several times.

2. Have children clap their hands and say "te".

Do several times.

- 3. Have children do one (1) "u" and (1) "te".
- 4. Explain that it is called pa.

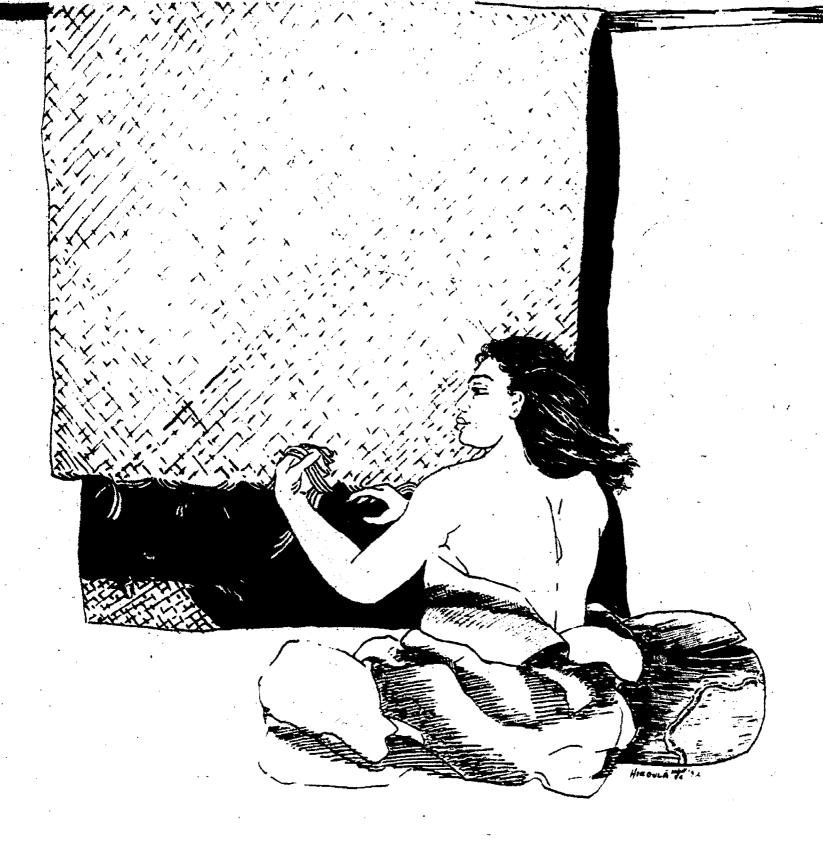
#### Teaching Kahela.

- 1. Have children slap their laps once, (u) and clap twice (te te).
- 2. Explain that this is called kahela.
- 3. Have children do  $1 p\bar{a} (u te)$
- 4. Have children to 1 kahela (ub- te te).
- 5. Have children do variations after they know the difference between pa and kahela.
  - a. pā, pā, kāhela
  - b. Kahela, pa
  - c. pā, kāhela, pā, etc.
- 6. As children are able to distinguish the  $p\bar{a}$  and  $k\bar{a}hela$  beats, have them do their own variations. Good activity for listening skills.

When using  $\underline{ipu}$  or bleach bottles, the  $\underline{u}$  is tapping the object on the  $\underline{pale}$  and the  $\underline{te}$  is slapping the object on the side.

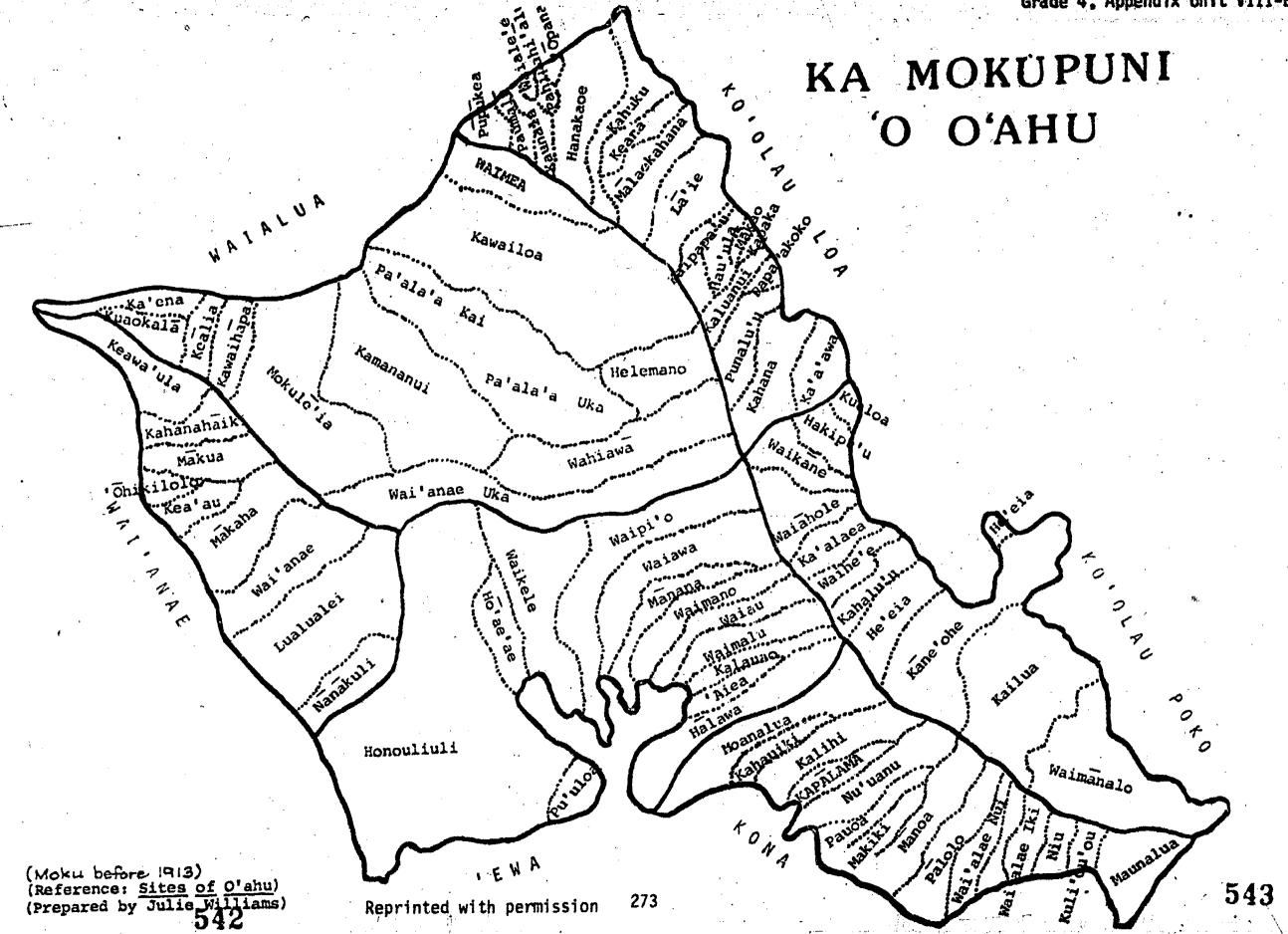






# NO'EAU





YOU COME MY HOUSE (Tune: Polly Wolly) Key: C

Lyrics - Harold Haku'ole/Noelani Māhoe

C You come my house, you eat sushi, That's the Kepani style C You eat tempura, tofu, sashimi, That's the Kepani style.

Vamp:  $D^7$  (2)  $G^7$  (2) C (4)  $G^7$  You come my house you eat bagoong, That's the Pilipino style. You eat kalamunggay, pancit, talong, That's the Pilipino style.

Vamp: D<sup>7</sup> (2) G<sup>7</sup> (2) C (4) G<sup>7</sup> You come my house, for a big  $1\bar{u}'au$ , That's the Hawaiian style

You eat and eat till the food all  $\underline{pau}$  C That's the Hawaiian style.

Vamp:  $D^7$  (2)  $G^7$  (2) C (4)

Encourage the children to create their own versions with foods eaten by other ethnic groups.

Some ethnic groups:

Haole - Caucasian, main line American culture

Kamoa - Samoan

<u>Kepani</u> - Japanese

<u>Kōlea</u> - Korean

Pākē - Chinese

Pokoliko - Puerto Rican

<u>Pukiki</u> - Portugese

Vocabulary:

sushi - rice seasoned with vinegar and/or other ingredients

tempura - food dipped in batter and deep fried

tofu - bean curd

sashimi - thinly sliced raw fish served with shoyu sauce

<u>Pilipino</u> - Filipino

bagoong - fermented fish

kalamunggay - leafy tree - leaves added to meat dishes

pancit - noodles

talong - egg plant

 $1\bar{u}'au$  - Hawaiian feast named for the taro tops

palusami - lū'au leaf with meat or fish and pe'epe'e (coconut cream)

pisupo - corned beef

etc. (solict names of ethnic foods from the children to create new verses)

pau - finished!

CONTENT AREAS	EMPHASES	
SOCIAL STUDIES	Process of making kapa (bark cloth) Religion involved Roles of men and women Plants needed to make the kapa Materials and tools needed Steps involved	
	Uses of <u>kapa</u>	
	5	
SCIENCE	Early Hawaiian Dyes Plants used Tools and materials needed to produce the color	5
LANGUAGE ARTS	Hawaiian terms for the dye colors and for shapes a	nd for dye plants
	Sentence pattern: He keia. (This is a	
	Question pattern: He aha kēia? (What is this?)	
Music	Creative compositions about Fapa making  Setting rhythmic patterns on a worksheet	·
518	BEST COPY AVAILABLE	549

#### LEARNER OBJECTIVES

APP: DICES

See Early Hawaiian Life pp. 191-192 for other objectives.

- Describes how availability of certain materials and paucity or lack of other materials directly affected the development of many elements of Hawaiian material culture.
- Contrasts the production and use of native kapa cloth with the later acquisition and use of foreign cloth.
- Discusses the necessity for cooperation and working together on individual projects such as <u>kapa</u> making and the pulling together of the community in large numbers to provide labor for the chiefs and <u>konohiki</u> for large-scale projects. (<u>kokua</u>, <u>laulima</u>, <u>alu like</u>, <u>lokahi</u>)
- Describes the ethnobotanical user of plants by the Hawaiians including food, medicine, dyes, shelter, tool, ...eapons, ornaments, religious and social rites.
- Unit IX A Experimenting with Plant Dyes p. 284

- Imitates with correct pronunciation the Hawaiian words, expressions and phrases modeled by the teacher or <u>kupuna</u>.
- Asks about and identifies objects or people in pictures with Hawaiian phrases.
- Describes the size, shape or color of o' jects or people using Hawaiian phrases.
- Responds to questions and makes comments using appropriate single words or Hawaiian phrases.
- Writes using diacritical marks, words and phrases previously learned orally.
- Recognizes that selected words and expressions found in chants and songs that have been learned can be incorporated into the students active or passive vocabulary.



CONTENT AREAS

EMPHASES

MUSIC (CONTINUED)

Song about <u>Kapa</u> beating "Hohom Kuku" - new composition



#### LEARNER OBJECTIVES

APPENDICES

 Writes prose or puetry in English, using Hawaiian words and expressions where appropriate, expressing the student's feelings about Hawai'i, Hawaiian food, music, dance, people and history. Unit IX - B "Hohoa Kuku," pp. 285-286

- Accompanies a Hawaiian chant using a rhythmic instrument such as an ipu, pū'ili, kāla'au, kā'eke'eke, or 'ili'ili.
- Creates melodies and lyrics concerning a Hawaiian theme using English and Hawaiian words, expressions, and phrases.



SCIENCE

LANGUAGE ARTS

MUSIC

 The following activities involve the study of the plants that provided dyes for the Hawaiian kapa.

#### Sources:

Buck. Arts and Crafts of Hawai'i, Vol. V - Clothing, pp. 186-189

DOE/OIS. <u>Na Kapa Hawai'i</u> (Ho'onani: Artmobile Hawai'i), TAC 72-4339

Dunford. The Hawaiians of Old, pp. 119-120

Ihara. "Hawaiian Barkcloth and <u>Kapa</u>,"
DOE/Bishop Museum Research Materials
Bulletin Number 1

#### Procedure:

- 1. Have the children recall some of the early Hawaiian plants that grew in the environment. List these plants on a clean chart in one column.
- 2. Have the children predict which plant gives which color and the part of the plant that produced the color.

	We Predict			
	Color			
į	'olena	tuber	Yellow	

 These language arts activities review the color names in Hawaiian that were used in kapa dyeing and allows the children to review sentence patterns.

- 1. Encourage the children to review the names of the colors in Hawaiian. Hold up colored shapes and have them give the name of the color as well as the name of the shape.
  - a. Ask: He aha keia? (What is this?)
  - b. Answer will be given as follows:

    He po'ai 'ula'ula keia. (This is a red circle.)

    He huinaha poni keia. (This is a purple square.)
  - c. Other shapes are:

    huinahā loa rectangle

    huinakolu triangle

    pō'ai lō'ihi oval

    poepoe circle
  - d. Colors:

- whitish-yellow halakea kai'ina - lavender ke'oke'o - white lenalena - pale yellc ma o - light green. me leme le - golden vellow ole 1a - yellowish orange 'oma'oma'o - green 'ula'ula - red

- Songs about kapa making
  - 1. Creating songs about kapa making
    - a. Take a hohoa (kapa beater) and pound it on a wooden anvil.
    - b. Have the children listen to the sound as they compose rhythms of their own in their heads as you beat a 4/4 beat or a 2/4 beat.
    - c. Pass out <u>kāla'au</u>, dancing sticks, to each child and have them share their rhythms as they are called on Continue to beat the 4/4 pattern.
    - d. Add variety by having more than one share their creations.
    - e. This activity can lead to some poetic lyrics that describe their feelings about the kapa beaters of early Hawai'i.
    - f. Encourage the children to compose some poems and set them to chant using the minor 3rd.

#### SCIENCE

#### LANGUAGE ARTS

#### Music

#### 3. Ask the children:

- a. What is the best way to find out where the Hawaiians got their colors from? List their suggestions on the chart.
- b. How did the Hawaiians extract the colors from the plants?
- c. What kinds of materials and tools did they use?
- 4. Decide on the procedures to follow, gather the materials and tools necessary for experimentation and have the children bring in a variety of plants from their own homes.
- 5. Have available some of the plants that are harder to find such as those listed in Buck. Arts and Crafts of Hawai'i, Vol. V-Clothing, p. 187. Suggested procedures:
  - a. Discuss the objective "To determine which colors are derived fr. which plant or plant part".
  - Decide on how to conduct the experiments. E.g., groups of 2's, 3's, etc.
  - c. Categorize the plants. E.g., grasses, ferns, berries, milky, non-milky
  - d. Group volunteers to test a set category of plants
  - e. Experimentation

<u>'ele'ele</u> - black <u>'ahiahia</u> - faded

pua hina - light gray

2. Set up a bulletin board showing this question and answer pattern. Place a pocket in the answer portion so that the children can place the correct color and shape as they go up to learn with each other.

#### Learn Your Colors and Shapes

He aha keia? (Pin a colored shape here)

le pō'ai 'ula'ula kēia.

Insert correct cards here

(pockets for cards)

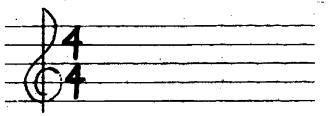
Play this game with a partner. Pick and choose your cards from the boxes below.

Colored Vocabulary Shapes Shapes

Vocabular Colors

3. Hold up pictures of Hawaiians clothed in kapa and ask the same question pointing to articles of clothing. Ask also: 'O wai keia? (Who is this?)
'O Kupuna kane keia (This is grandfather.)

- g. Ask the <u>kupuna</u> in your school or some other resource person to translate the poems entirely or partially into Hawaiian.
- 2. Rhythmic patterns on a music worksheet
  - a. Hand out a music worksheet consisting of several blank staffs.
  - b. Have the children draw a treble clef signature with a 4/4 beat.



c. Choose a note for everyone to use such as F and have the children draw their rhythmic kapa beating pattern on the staff.

E.g.



d. Have them write the words of their poems below the notes. They will need to draw several measures of their rhythmic pattern.

#### -----

## LANGUAGE ARTS

#### MUSIC

 Take each plant and test the various parts to see if any color is produced.

SCIENCE.

- 2) Experiment by mashing. Mix the results with:
  - a) water
  - b) kukui or kamani nut oil
- 3) Use a pandanus paint brush and apply the color to squares of muslin.
- 4) Record the findings on the worksheet found in Appendix Unit IX-A p. 284. Worksheet: Experimenting with Plant Dyes.
- 5) Share the findings and compile the data on a master chart.
- 6) Analysis:
  - a) Do all the plants give colors?
  - b) Are they true colors?
  - c) Do green leaves and plant parts give off a green color?
- 7) Leave the discussion open to setting up new hypotheses and further research if the interest is high.

- 4. The children should also be able to say the names of the dye plants correctly in Hawaiian. Using the same sentence pattern, ask them to say the names of the plants.
  - E.g.: He aha keia? What is this?
    He kukui keia. This is candlenut.
- 5. As they become proficient in speaking, have them write their responses.
- 6. Letter writing:
  - a. Have the children write a letter to the museum on your island asking permission to tour the museum's kapa collection. Have them elaborate on the kinds of things they want to see and/or touch.
  - b. Have them share their letters with the class. Then compose letter to be sent to the museum liaison person.
  - c. Plan the field trip, tying in as many aspects of kapa making as possible (as studied in social studies in Early Hawaiian Life).
  - e. After the field trip, have the children write thank you letters.
- 7. See other language arts activities in Early Hawaiian Life, pp. 198-199.

- 3. Teach a new song about <u>kapa</u> beating.

  "Hohoa Kuku" by Keli'i Tau'ā

  See: Appendix Unit IX B, pp. 285-286
  for words and music.
  - a. Write the words on a chart. Have the children point out all the familiar Hawaiian vocabulary. 'Underline them.
  - b. Talk about the steps in beating kapa as studied in social studies. Have the children attempt to interpret the song based on the vocabulary they already have and on their knowledge of making kapa.
  - c. Present the English translation as written in the appendix.

500

d. Teach the words to the song. (This song was composed specifically under contract to the Hawaiian Studies Program.)

6. Using the sources listed in this lesson, have them continue their research into the materials and tools used in early Hawai'i.

SCIENCE

- 7. Use the dyes in art class to decorate kapa squares.
- 8. Share the findings of each group. Check the results against the prediction chart and have the children state some generalizations.
- 9. Collect the findings and have a committee set up a bulletin board display of plants, plant parts, colors derived, materials used, and procedure used.
- 10. Invite a resource person to talk about the making of dyes in early Hawai'i and how Hawai'i's kapa dyes are unique in all of Polynesia. To observe the durability of early Hawaiian dyes, plan a trip to a museum to see samples.

Music

562

LANGUAGE ARTS

Plant	Plant Part Used	Color	Procedure Used
· · · · · · · · · · · · · · · · · · ·			
			•
·			
•			
		£*	
ERIC . 553		56	

#### HOHOA KUKU

by Keli'i Tau'ā

Hohoa mua i ka wauke Hohoa mua i ka wauke He kua pohaku ma lalo He hohoa la'au ma luna A laila hohoa i ka wauke I ho'omo'omo'o 'ia A wali, kaula'i i ka la A wali, kaula'i i ka la

Kuku hope i ka wauke Kuku hope i ka wauke He kua kuku ma lalo He i'e kuku ma luna A laila kuku i ka wauke Ma ka hale kua A wali, kaula'i i ka la A wali, kaula'i i ka la

Eia ka mo'olelo põkole
O ke kapa o Hawai'i nei
'Elua hana i ke kapa
Kapa 'ia "hohoa i ka wauke"
A kapa 'ia, "hana 'ia ka i'e kuku"
Hanalike i ke kapa
A wali, kaula'i i ka la
A wali, kaula'i i ka la

Beat first the wauke
Beat first the wauke
A stone anvil below
A wooden beater above
Then beat the wauke
To be made into long smooth strips
And spread it in the sun
And spread it in the sun

Beat after the wauke
Beat after the wauke
A wooden anvil below
A wooden beater above
Then beat the wauke
In the tapa house
And spread it in the sun
And spread it in the sun

Here is a short story
Of the tapa of Hawai'i nei
Two working phases of tapa beating
Called hohoa (beating) of the wauke
Secondly called i'e kuku
Working together the kapa
And spread it in the sun
And spread it in the sun

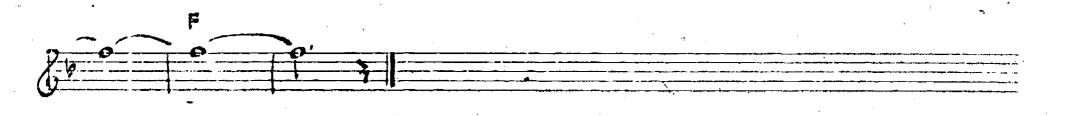
# HOHOA KUKU

By Keli'i Tau'ā









# GENERAL APPENDICES

# BASIC VOCABULARY LISTS

MAPS



#### HAWAIIAN STUDIES PROGRAM

#### BASIC HAWAIIAN VOCABULARY LISTS, GRADES K- 4

The Basic Vocabulary Lists which follow contain Hawaiian words which range from very basic and culturally important terms to more general ones identifying early and modern Hawaiian and imported values, practices, objects and people. The words have been drawn from the Basic Hawaiian Vocabulary Lists, #'s 1 and 2 which were reprinted in Appendix D, Hawaiian Studies Program Guide (Draft), Office of Instructional Services/General Education Branch, RS 81-0655, March 1981. The two lists were created for all learners of Hawaiian at the elementary level, whether they be in elementary school, high school, college or adult school, by Haunani Bernardino, Dr. Emily 'Ioli'i Hawkins, and Robert Lokomaika'iokalani Snakenberg.

After using the lists during the 1981-82 school year in the implementation of the Hawaiian Studies Program, District Resource Teachers and <u>kupuna</u> suggested that the two lists be regrouped to reflect more explicitly the vocabulary which would be appropriate for each grade level from kindergarten to sixth. The following lists are the results of a series of meetings held in the Fall of 1982. The Department acknowledges the <u>kokua</u> of and expresses "Mahalo nui loa!" to the following:

Honolulu District Solomon Kaulukukui and Kupuna Katherine Makena Harbottle

Central District Jan Kahōkū Yoneda

Leeward District Mililani Allen and Kupuna Elizabeth Kauahipaula

Windward District Elsie Kawao Durante, Kupuna Jessie Pilimauna and Kupuna Lilia Hale.

State Office Noelani Mahoe and Lokomaika'iokalani Snakenberg

These lists are constructed so that the words are grouped in categories such as social life and relations, nature, food, body parts, etc. Within each category, the words are glossed following the order of the sounds in the Hawaiian alphabet, the Pi'āpā. Words beginning with the glottal stop or 'okina (') are to be found after the words beginning with the other consonants.

The alphabetical order followed, therefore, is: a, e, i, c, u, h, k, l, m, n, p, w, 'a, 'e, 'i, 'o, 'u

This arrangement in Hawaiian alphabetical order is being applied only to initial vowels and consonants (including the 'okina) and is being done to underscore the importance of the 'okina in both pronunciation and spelling. It also serves to help the learner memorize which words begin with the 'okina by having them physically separated from the words spelled with the same initial vowel.



Social Life & Relations	a managara a managara a managara a managara managara managara managara da managara da managara da managara da Managara da managara da managara da managara da managara managara da managara da managara da managara da manag	1omi	to massage
kahuna/kāhuna (plural)	expert(s), priest(s)	maka	raw
maka'āinana	member of the common class	malo'o	dry
ingrees. Williams		mā'ona	(to be) full, satisfied
<u>Nature</u>		mea inu	something to drink
/		pā	plate
/ ahi	fire	pa'akai	salt
one	sand	*pahi	knife
		*paila	boil; boiled
Hawai'i Lifestyle (hula	, music, arts/crafts, games/sports)	*palai	to fry; fried
akua	god, spirit	*palaoa	flour; bread
ho'omanawanui	(to be) patient	*pepa	pepper
kumu hula	dance teacher	*pipi	beef
'aumakua/'aumākua	/family guardian(s)/ spirit(s)	poke	to cut in cubes (usually fish)
(plural)		*pola	bowl
• •		pua!a	pig, pork
Food - Preparation		pūlehu	to cook over hot coals or ashes
halakahiki	pineapple	wai hua 'ai	fruit juice
kī'aha	glass, cup	*waiu paka	butter
, <b>kö</b>	sugar cane	*'alani	orange
kopa'a	refined sugar .	10	fork
*laiki	rice	'uala	sweet potato
laulau	method of cooking ti leaf food package in imu, or steaming in pot	'ulu'	breadfruit
lāwalu	method of cooking <u>ti</u> leaf food package (usually fish) over coals	Body Part & Functions	
		ake	liver
* Hawaiianized English			570



kūkae	excrement, feces	ninau	to ask; (a) question
leo	voice	oli	to chant
ma'i	sick, genitals	pā'ani	to play
mimi	to urinate; urine	pane	to answer
• piko	navel; top of head; genitals		
poli	breast; bosom, heart (poetic)	Miscellaneous Adjectives	<u>3</u>
põloli	hungry	1ohi (*	slow
waiū	breast; milk	make	dead (to die)
1111	skin	momona	fat, sweet, fertile
		põkole	short
Household Terms		'awīwī	to hurry; fast, quick
moena	mat		
ipuhao	pot	Colors	
uluna	pillow	lenalena	off-white, dingy yellow
papahele	floor	māku'e	dark brown
kaupoku	ridgepool, roof, attic, highest point	uliuli	dark colors (blue, green, purple,
Miscellaneous Verbs			gray) This is the color of the sea, sky, and far-off vegetation.
ala	to awaken oneself, to wake up	Clothing	
ha'awf	to give	holokū	long dress with a train
hānau /.	to be born; to give birth	kihei	shawl
hāpai he'e nalu ho'i	to carry; to be pregnant to surf to return	kĨkep≈	tapa or sarong worn by women under one arm and over the shoulder of the opposite arm.
kākau	to write	kūpe'e	bracelet, anklet
•		(lei) niho palaoa	whale's tooth pendant (worn about neck)

clothes, dress lole feather helmet mahiole loin cloth malo

woman's wrap-arond garment (sarong, pareu, lavalava)

feather cloak or cape 'ahu'ula

<u>Animals</u>

pā'ū

mongoose \*manakuke

lizard; reptile of any kind mo4 o

nënë Hawaiian goose

hawk 'io

Transportation

sedan chair manele

Months

See K-1 exposure

Social Life & Relations ali'i chief(ly), royal, noble hānai to raise, feed; to adopt, adopted child to make right (Hawiian family problem ho'oponopono resolving) old woman luahine 'elemakule/'elemakule old man/old men Nature path, roadway ala middle of night aumoe dirt, dirty Tepo ocean, deep sea moana pūpū sea shell wailele waterfall Hawai'i Lifestyle (hula, music, arts/crafts, games/sports) \*himeni to sing; song, hymn paddle hoe rele to sing; song, chant to pray; prayer; week pule Food fruit hua \* Hawaiianized English

edible fruit hua'ai hua moa egg \*kuawa guava passion fruit liliko'i limu seaweed mai'a banana \*manakō mango mea'ai food

#### Body Part & Functions

alelo tongue iwi bone back ku'eku'e maka eyebrow furehead lae po'o eyelash lihilihi maka brain 1010 tired luhi intestines, guts na'au heart pu'uwai

#### Household Terms

kelepona telephone

#### Miscellaneous Verbs

heluhelu to read 577

ERIC AFUILTER Provided by ERIC

to be able, can hiki

to wash, wipe, erase holoi

to listen lohe

to lie down moe to bathe, swim

to see, know 'ike

#### Miscellaneous Adjectives

chilly, cool hu'ihu'i

old kahiko/kahiko

small, tiny 'u'uku

#### Colors

'au'au

See K-1 master

#### Numbers

0-100 master

one of something - master ho'okahi

#### Days of Week

See K-1 maste.

#### Months.

See K-1 exposure

\* Hawaiianized English

# 578

#### Modes of Transportation

train . ka'aahi ship moku

airplane mokulele

\*naikikala bicycle

\* okomopila automobile

#### Zoo Animals

camel \*kamela

keko monkey

zebra \*kepela

\*k!a deer

~kika tiger

giraffe kilape

lion \*liona

buffalo \*papulo

bear \*pea

\*'elepani elephant

#### Locatives/Location Words

behind, after, last, in back hope

scaward, sea, ocean kai

under, beneath Talo

inside loko

up, over, above, on top Juna

forward, in front, before, first mua

waena waho uka between, among

outside

mountainward, uplands, inland

**BEST COPY AVAILABLE** 



Miscellaneous			Days of Week	
mea	thing, person	•	See K-1	exposure
Numbers			Months	
0-19		•.	See K-1	exposure
iwākalua	twenty		Clothing	-•
Decades; concept of kan	1a-			alana *
kanakolu kanaha	thirty forty		kāma'a lole wāwae	shoe pants
kanalima kanaono	fifty sixty	•	mu'umu'u	loose gown
kanahiku kanawalu kanaiwa	seventy eighty ninety		pālule pāpale	shirt hat
•	indicates that it multiplies		<u>Animals</u>	
Ho'okahi (one, alone, one of something as	exposure		See K-1	exposure
opposed to one in a series)		· · · · · · · · · · · · · · · · · · ·	Transportation	
ho'okahi kāma'a ho'okahi wa'a	(just) one shoe (only) one canoe		*ka'a	car



<sup>\*</sup> Hawaijanized English

Social Life & Relations	- Piùral forms
kaikamāhine	girls/daughters
kānaka	persons, people
kūpuna	grandparents
mākua	parents
wāhine	WORLD
<u>Nature</u>	•
honua	land, earth
kuahiwi	mountain
kum lā au	tree
72°au	bush, tree, herb medicine
lau	leaf
pali	cliff and
¹āina	land, earth
Hawaii Lifestyle (hula,	music, arts/crafts, games/sports)
lei	garland; to put on a garland
Food	
inu	to drink
kālua	to steam in imu
Body Part and Functions	
kīkala	hip

ku'eku'e lima	elbow
ku'ekue' wawae	ankle
kuli	knee
lauoho	hair
lehelehe	lip
manamana lima	finger
manamana wāwae	toe
niho	teeth
papakole	buttoci
pāpālina	cheek
umauma	chest
'ūhā	thigh

## Household Terms

kukui light, lamp moe bed pahu 'ume drawer, bureau

# Miscellaneous Verbs

helu to count
ho'ike to show
komo to enter
'ölelo to speak

# Miscellaneous Adjectives

pilikia trouble 584

#### Social Life & Relations

inoa name kaikamahine girl, daughter

kamaiki/\*pepe baby

kane man, husband

keiki child

keiki käne boy, son

kupuna grandparent

kupuna wahine/kupuna kane grandmother/grandfather

makua parent

makua kane/makuahine father/mother

wahine woman, wife

'ohana family

#### Nature

ahiahi evening ānuenue rainbow

awakea mid-day

hokū star kahakai beach

kai sea, salty water

kakahiaka morning 1ā day; sun

Tani heaven(ly); chief(ly)

\* Hawaiianized English

mahina moon-

makani wind manu. bird

рō night, darkness

põhaku rock, stone

flower, descendant pua

fresh, non-salty liquid wai

'auinalā afternoon louse, flea uku

#### Hawai'i Lifestyle (hula, music, arts/crafts, games/sports)

aloha love; to greet hula dance; to dance rules/laws: 'sacred kapu

kokua help; to help

mahalo thanks; to thank; to admire/like

#### Food

i'a fish kalo taro chicken moa pā'ina to dine

mashed kalo, 'uala, or 'ulu poi

pua¹a pig

to eat; also sometimes used as the !ai

general word for the staples kalo,

taro, or poi

'111o	dog	
¹ono	tasty, delicious	
Body Parts	•	<u>-</u>
ihu	nose	·,
, kino	body	,
lima	hand, arm	
maka	eye	
pepeiac	ear	
piko	navel	
po'o	head .	
pa'ohiwi	shoulder '	•
waha	mouth	
wawae .	foot, leg	•
'ōpū	stomach	
Household Terms	· ·	•
hale	house	
*home	home	·
lānai	patio ,	•
lua	toilet	
*lumi	room	
noho	chair	•
- pākaukau	table	
•		

ji telah di lalah di Pernaji Kebesah di belah di Penangan di Kebasah	
puka puka aniani	door; hole through
Miscellaneous Verbs	
hana	to work, to make
hele mai	to come
hele aku	to go (away)
hiamoe	to sleep
holo	to go, run, sail
ho'olohe	to listen
ho'omākaukau	to prepare, make
kāhea	to call
kū	to stand
lele	to jump, fly
nānā	to look (at)
noho	to sit

# Miscellaneous Adjectives

a kama i	smart, intelligent, clever
anuanu	cold
hau'oli	happy, glad, content
hou	new
11'111'1	sma 11
Toa	long, very
1ō'ihi	long
maika'i	good

ready

\* Hawaiianized English

ERIC Full Text Provided by ERIC

mākaukau	prepared, ready		·
nani	beautiful, pretty		
nui	big, plenty, many, much	Days of the Week	Exposure
pau	finished, consumed, destroyed	Põ'akahi	Monday
piha	full	Pō'alua	•
wela	hot	Pō'akolu	Tuesday
			Wednesday
Colors		Põ'ahā	Thursday
<del></del>		ro'alima	Friday
hinahina	gray	Pō'aono	Saturday
ke'oke'o	white	Lāpule	Sunday
melemele	yellow (golden)		
*palaunu	brown	*Months Exposure	· · · · · · .
*polū	blue		Cantania.
poni	purple	Kepakemapa	September
¹ākala	pink	'Okakopa	October
'alani	orange	Nowema pa	November
'ele'ele	/ black	Kekemapa	December
'oma'oma'o	green	'Ianuali	January
'ula'ula . ~	• • • • • • • • • • • • • • • • • • •	Pepeluali	February
uia uia .	red	Malaki	March
,		'Apelila	April
School .		Mei	May
*kula	school	Iune	June
kumu kula	school teacher	Iulai	July
ńoho	chair	'Aukake	August
puka	door: hole through something		, g a o o



#### Grades K-1

Animals		Humber	o-19; concept of -kūmā-/-kumama-
. *hipa	sheep	(1)	'ole
honu	turtle		'ekahi 'elua
i'a	fish		erua Pekolu
*ka kā	duck	• •	'ehā
kao	goat	• • • • • • • • • • • • • • • • • • •	'elima 'eono
*lāpaki	rabbit	ï	'ehiku
		<b>⊕</b> ()	'ewalu 'eiwa
lio	horse		
manu	bird	]() •	'umi
moa	chicken	11 12	'umikūmākahi 'umikūmālua
		13	'umikumakolu
*pelehū	turkey	14	'umi kūmā hā
pipi	beef, cattle	15	'umi kuma lima
	cat	16	'umi kūmā ono
,popoki			'umikūmāhiku
pua¹a	pig	18	'umi kūmāwalu 🏓 💮 💮 💮 💮
pueo	owl	19	'umi kūmā iwa
'ekake/kekake	donkey	NOTE:	In modern secular use from 11 through 99, the numbers
'ilio	dog		involving units one through nine are formed by using the appropriate tens number with the infix, "-kūmā-," and then the particular unit number; e.g., eleven is ten plus one, 'umi-kūmā-kahi.

<sup>\*</sup> Hawaiianized English

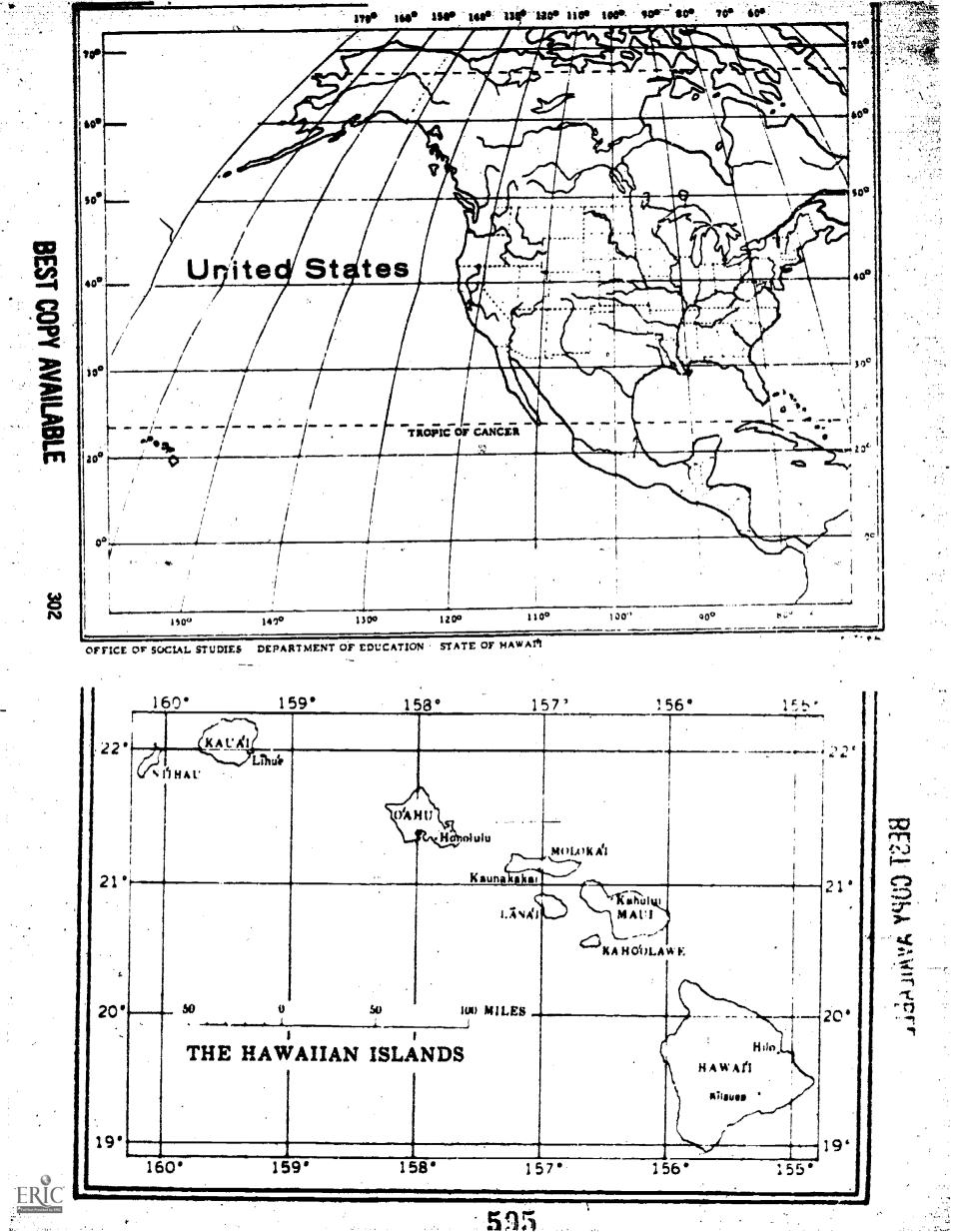


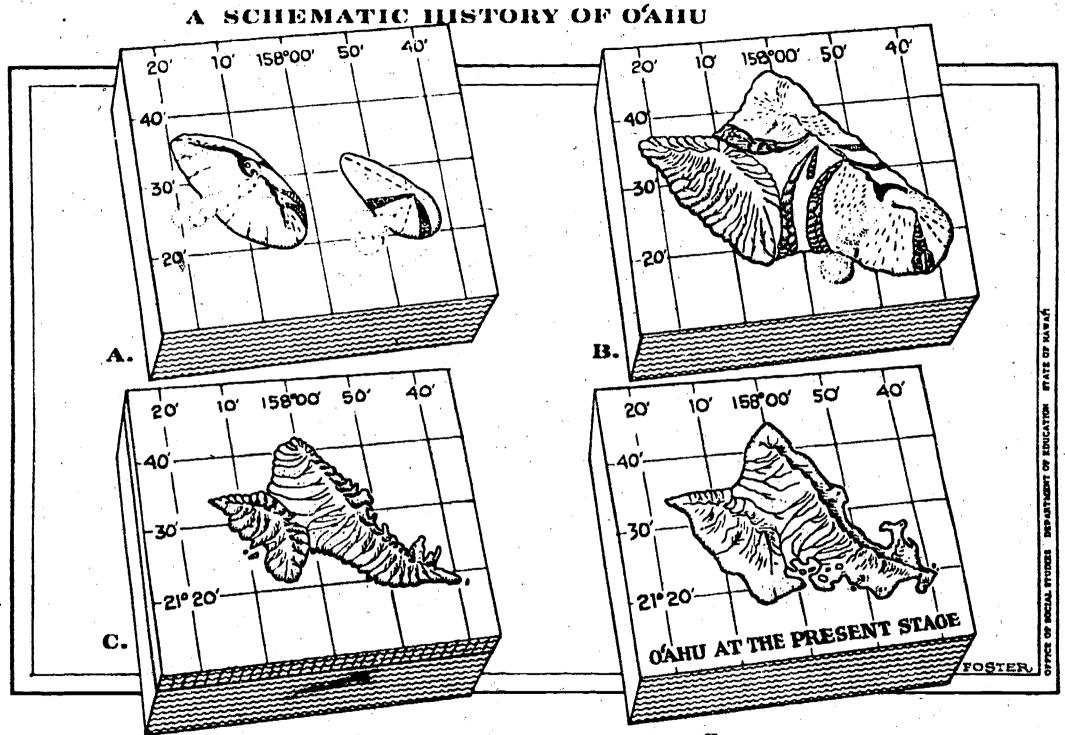
592

In the older form, the Hawaiians used the infix, "-kumama-."

Some kupuna, especially those still active in Hawaiian churches where the Hawaiian Bible is read out loud, may prefer the older form. The children should be exposed to both forms but they should concentrate on learning to use

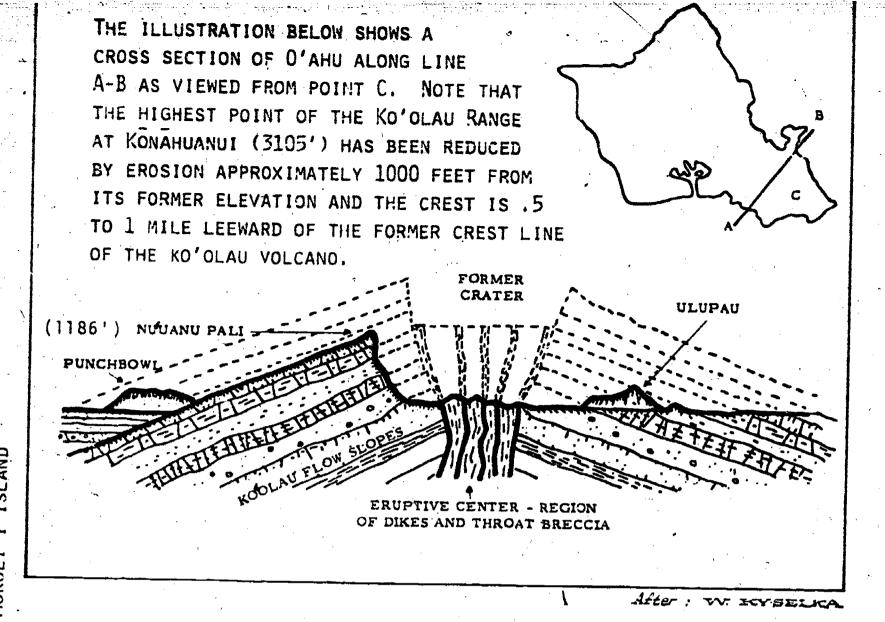
the modern form actively.

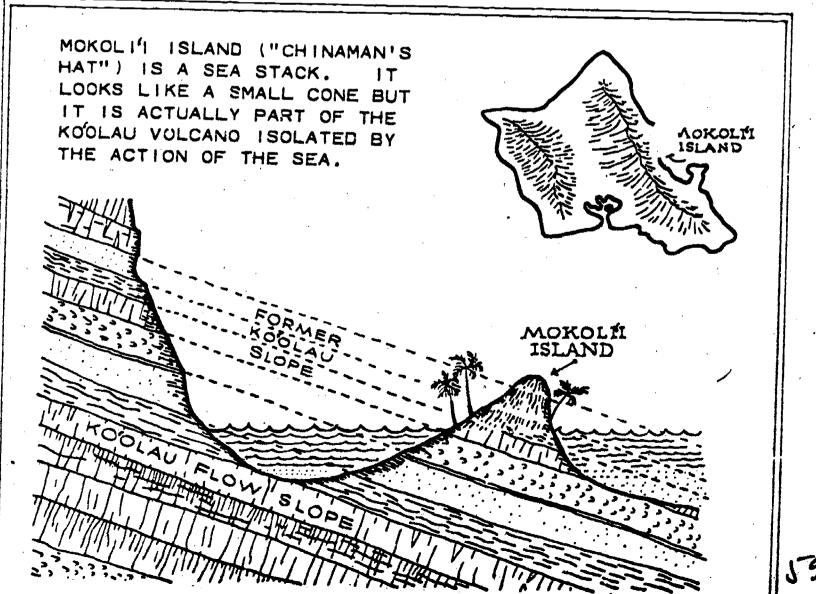




A. AT THIS STATE THE LAVA FLOWING FROM THE WAIANAE VOLCANO (LEFT) IS CONFINED TO THE N E. SLOPES BY A HIGH FAULT CLIFF. THE NEWLY FORMED KCOLAU VOLCANO (RT) BUILDS UP A LAVA DOME FROM ITS CENTRAL VENT B. HERE THE WATANAE CALDERA IS INACTIVE AND FILLED WITH LAVA AND THE SLOPES ARE DEEPLY ERODED. THE KOOLAU VOLCANO CONTINUES TO FRUPT AND THE FLOW JOINS WITH THE WATANAE RANGE TO FORM A SINGLE ISLAND.

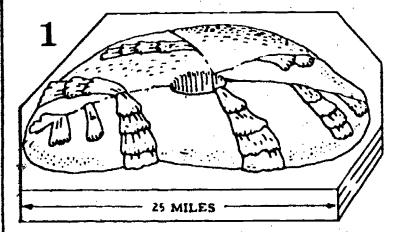
C. NOW BOTH RANGES ARE ERODED AND PARTIAL-LY SUBMERGED. FOSSILEFEROUS MARINE SEDIMENTS INDICATE A SUBMERGENCE OF OVER 1200 FEET. THE SHORE LINE IN THIS ILLUSTRATION IS 250 FEET ABOVE THE LEVEL OF THE SEA TODAY. SECONDARY ERUP-TIONS WILL CONTINUE AS THE ISLAND REEMERGES.





ERIC

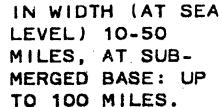
# Effects of EROSION



THE HAWAIIAN LAVA
OR SHIELD VOLCANO

STAGE 1 SHOWS 4° OR 5° GENTLE SLOPE, OFTEN FLAT NEAR TOP.

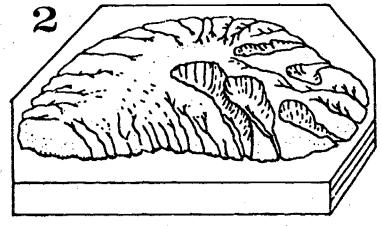
RANGE UP TO OVER 13,000 FEET ABOVE SEA LEVEL.

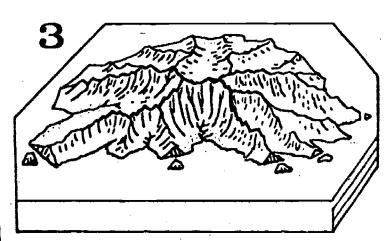


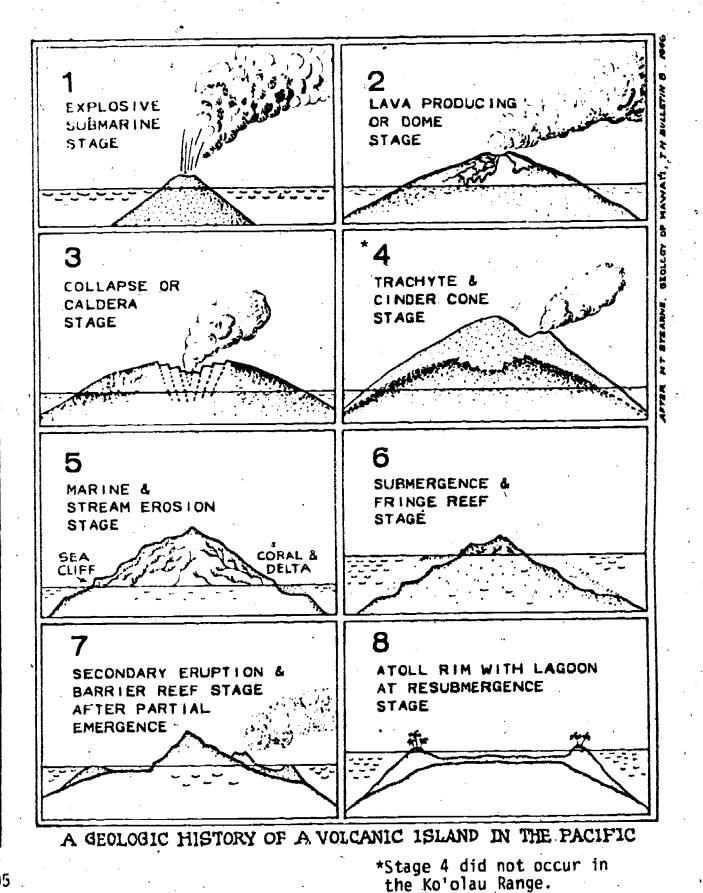
CENTRAL DEPRES-SION AND LAVA FLOWING FROM RADIAL FISSURE LINES.

2. YOUNG STAGE - DEVELOPMENT OF AMPHITHEATRE- HEADED VALLEYS.

3. MATURE STAGE - RESULTS OF GREAT STREAM EROSION.





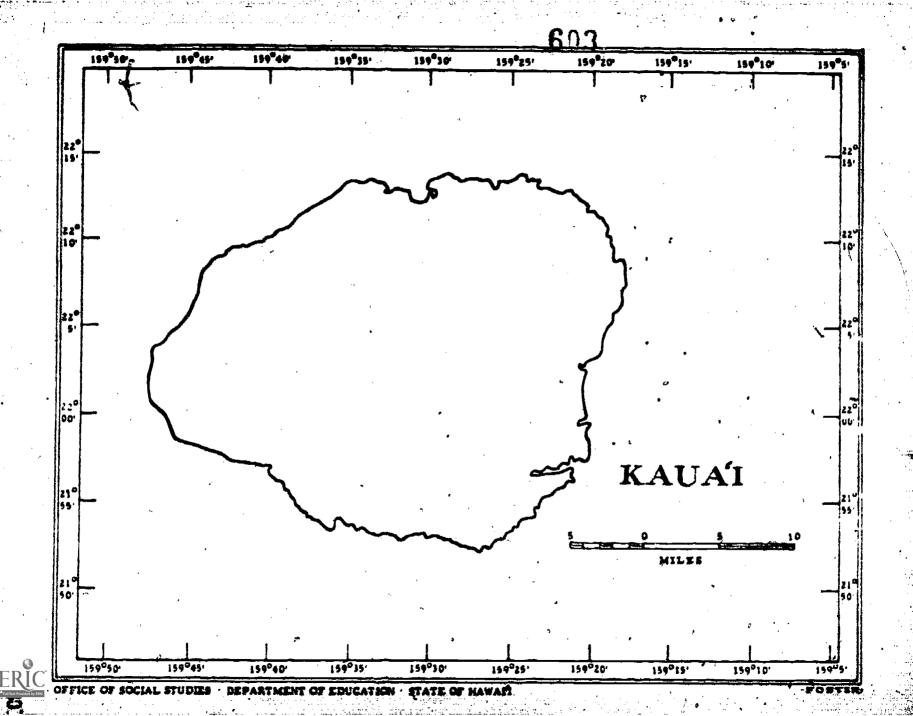


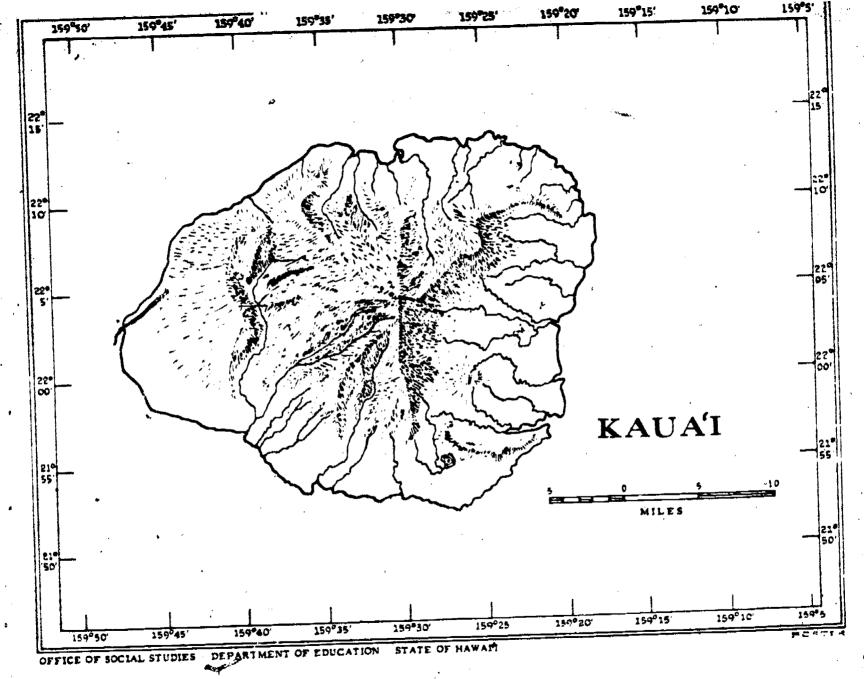
OFFICE OF SOCIAL STUDIES - I-EPAR' MENT OF EDUCATION - STATE OF HAWAIT

**305** .

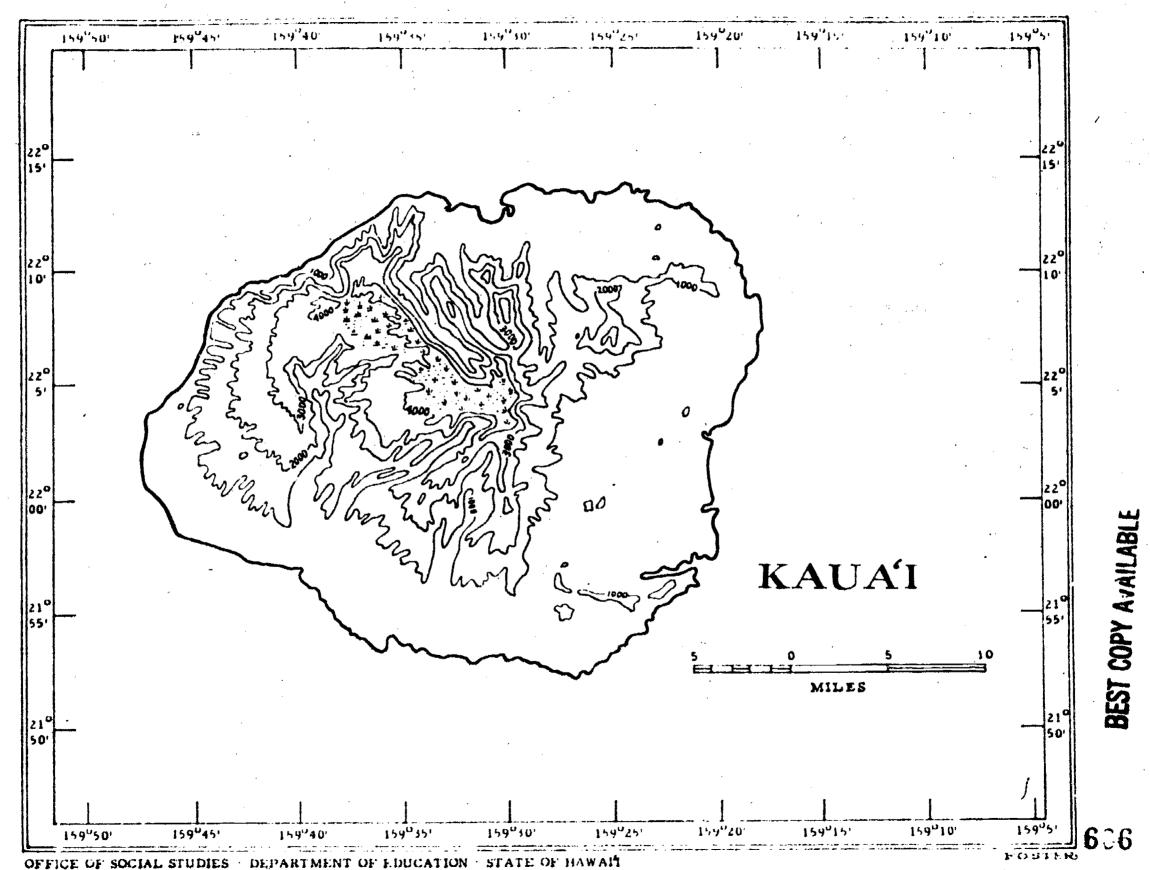
A CONTOUR LINE IS AN IMAGINARY LINE BUN-CONTOUR INTERVAL: VERTICAL DISTANCE NING ON THE GROUND AT THE SAME ALTITUDE SEPARATING CONTOURS. OR ELEVATION ABOVE SEA LEVEL. CLOSE CROWDING OF CONTOUR LINE: STEEP SLOPE. WIDELY SPACED LINES: GENTLE SLOPE. 4000 3000 2000 1000 A PROFILE IS A SIDE VIEW OF A PORTION OF THE EARTH'S SURFACE.

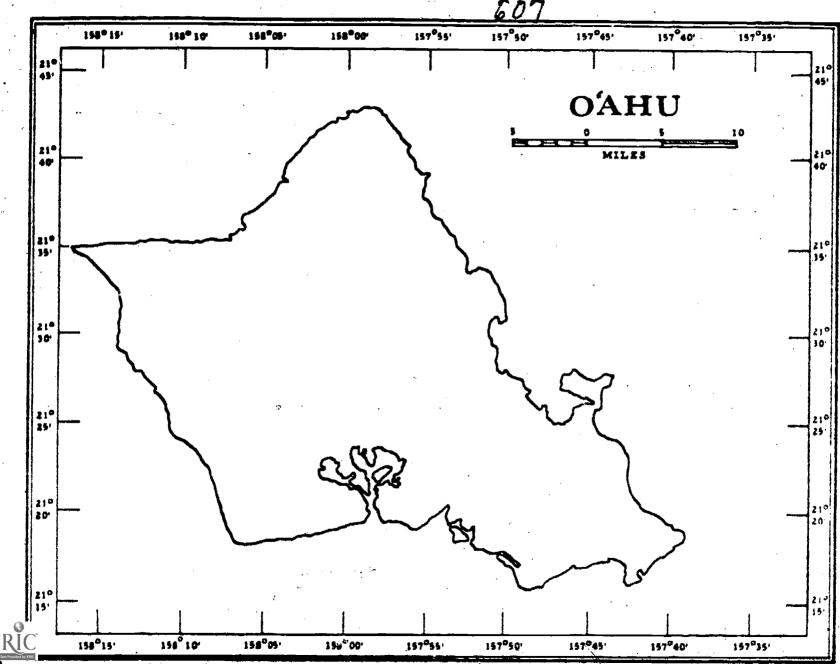




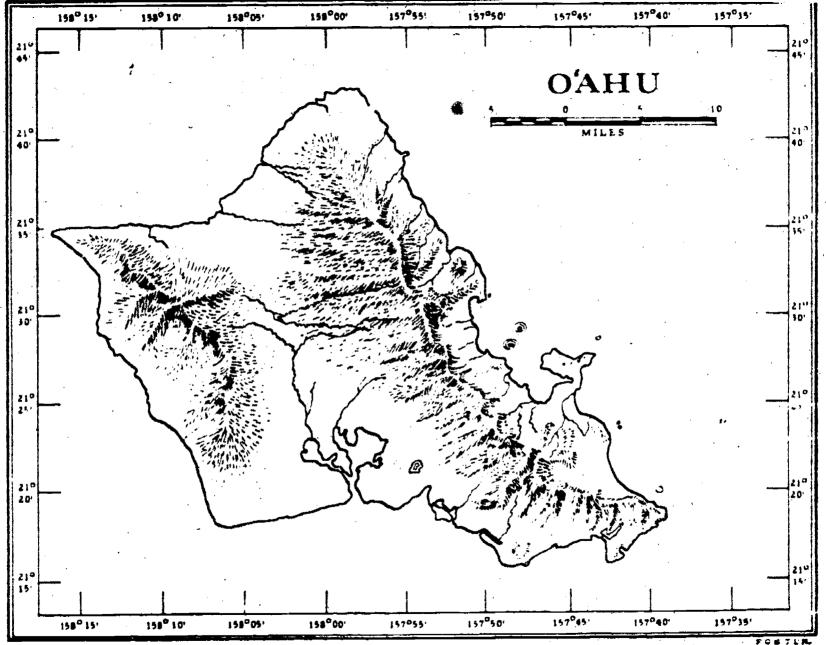






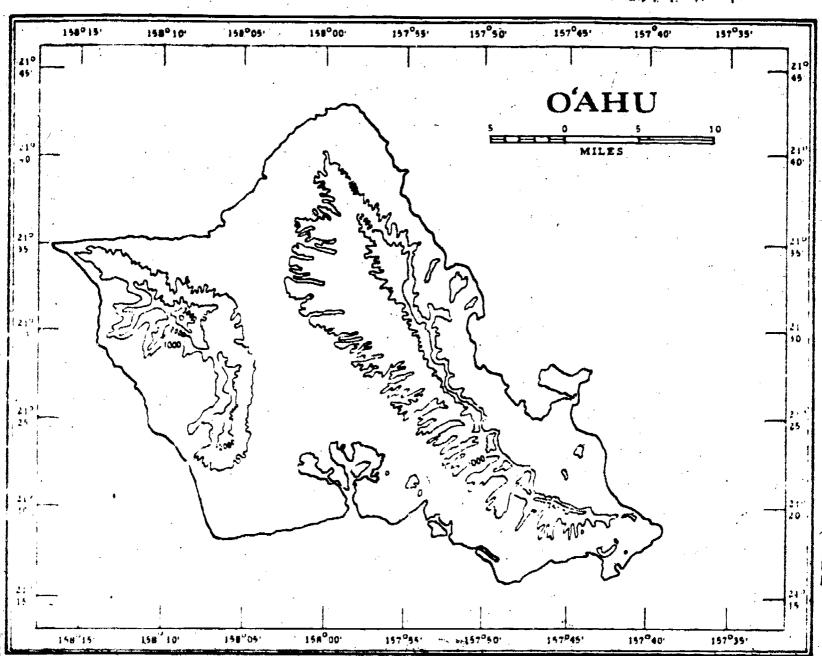


BEST COPY AVA



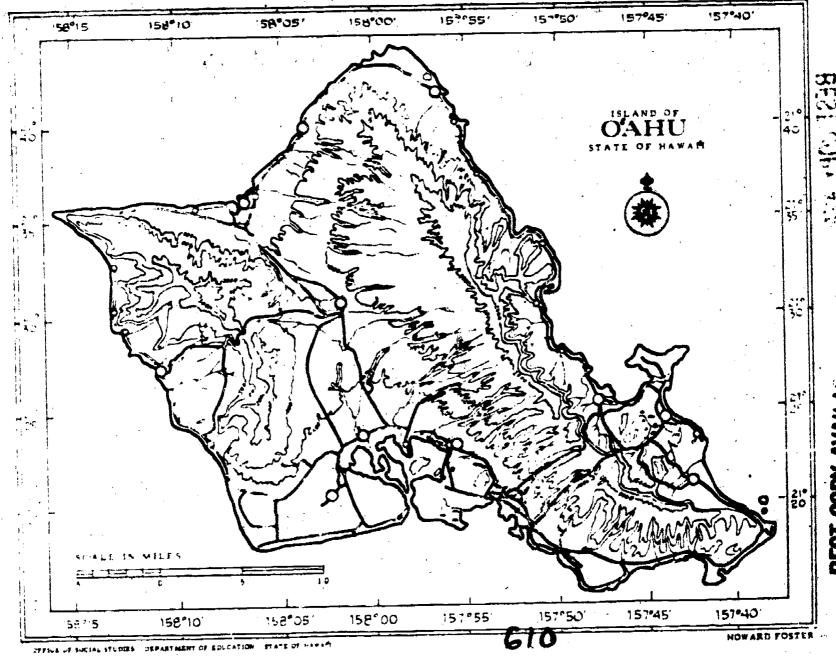
OFFICE OF SOCIAL STUDIES DEPARTMENT OF EDUCATION

BEST COPY A.

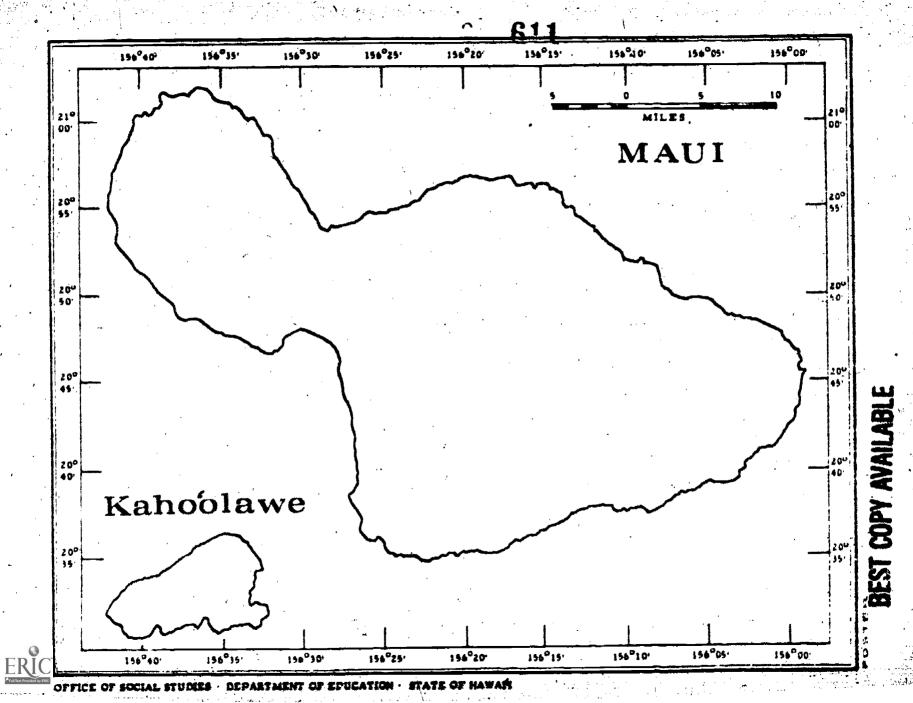


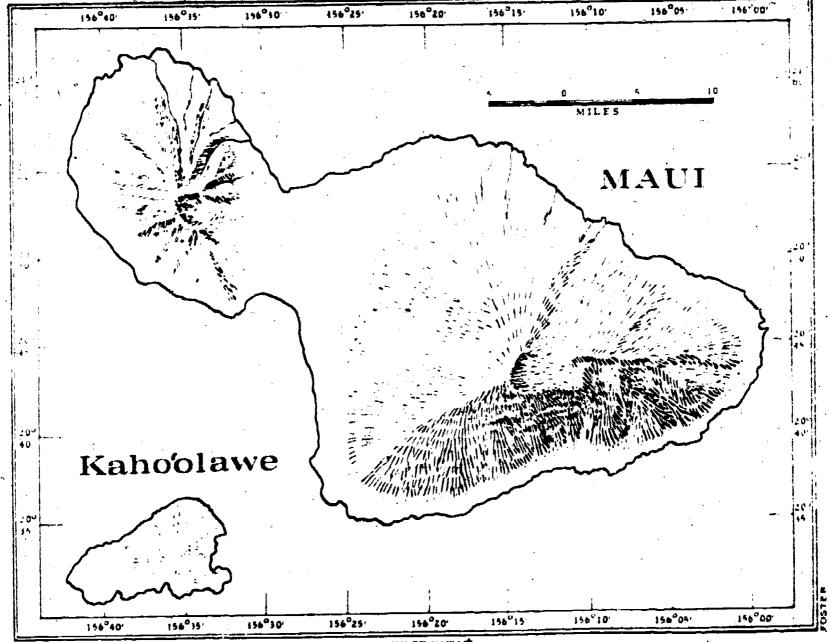
-

MESTER.



ERIC Full Text Provided by ERIC



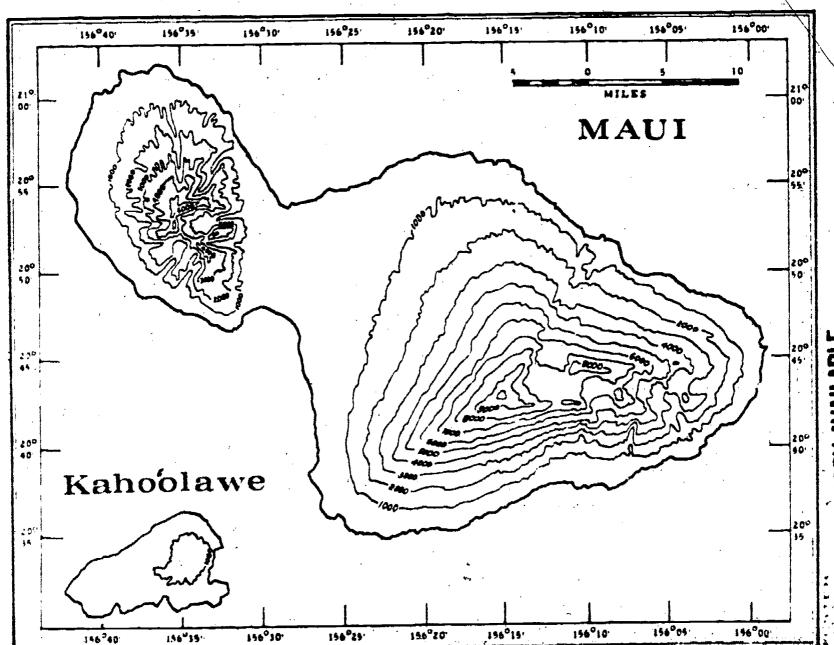


OFFICE OF SOCIAL STUDIES DEPARTMENT OF EDUCATION STATE OF HAWAI

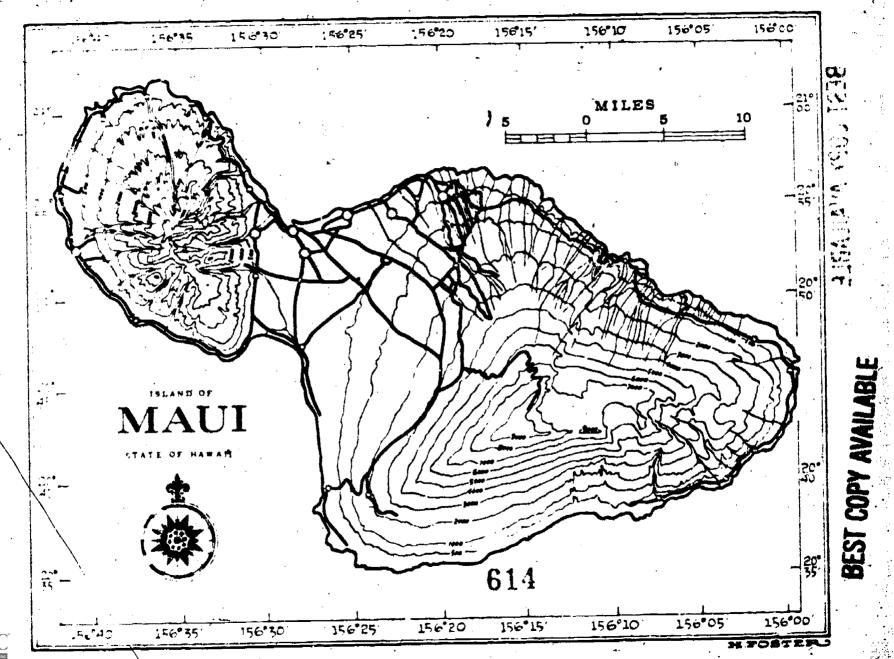


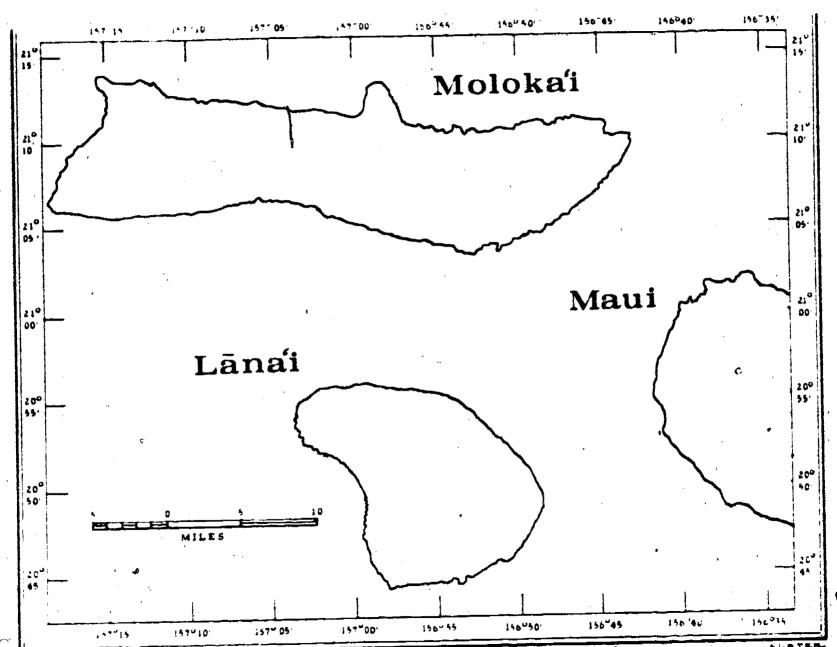
BEST COPY AVAILABLE





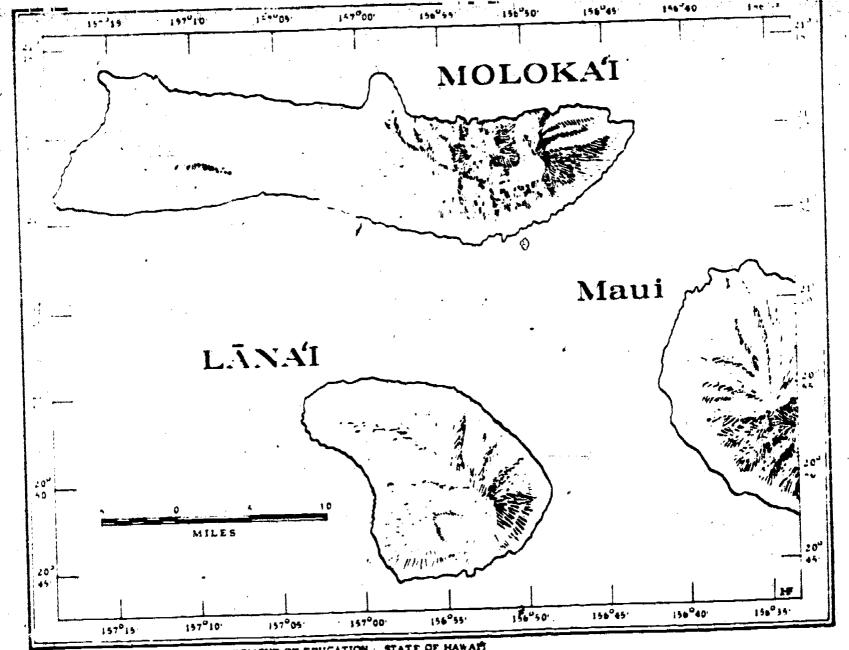






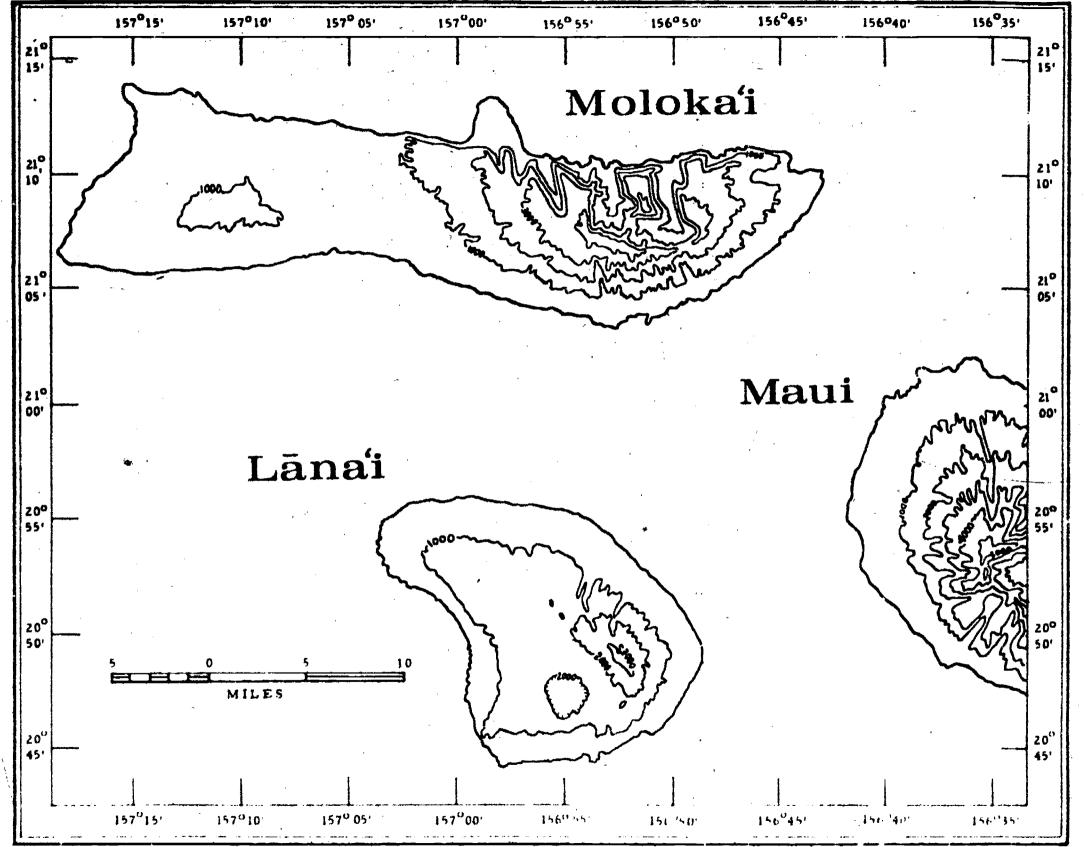
ERIC

OFFICE OF SOCIAL STUDIES DEPARTMENT OF EDUCATION STATE OF HAWAY

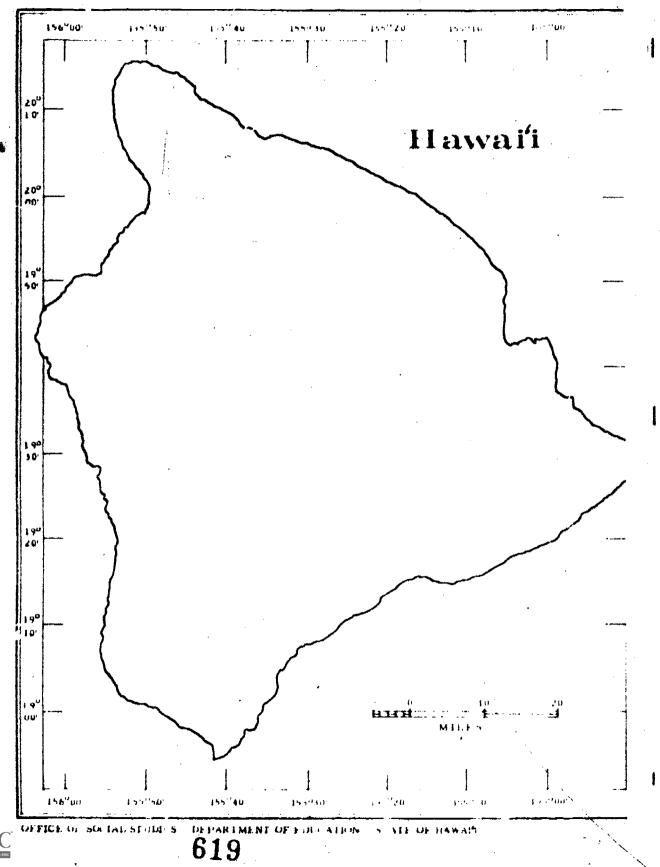


OFFICE OF SOCIAL STUDIES - DEPARTMENT OF EDUCATION - STATE OF HAWART

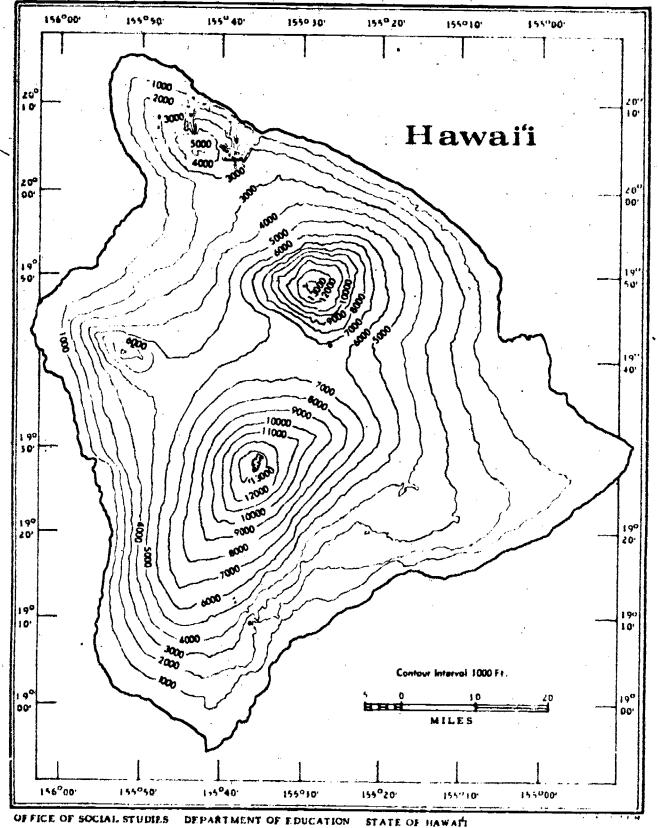


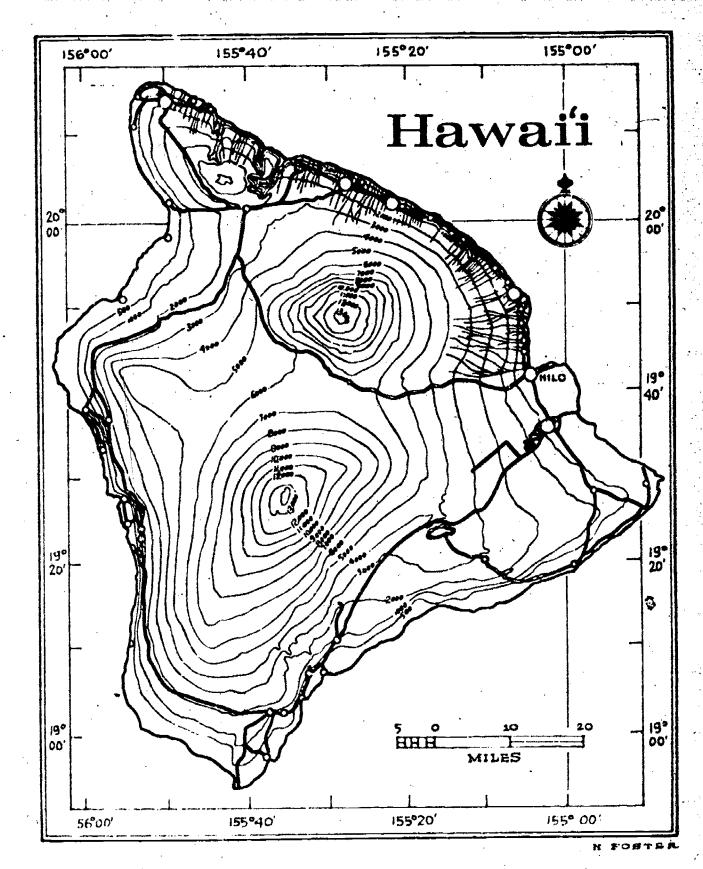


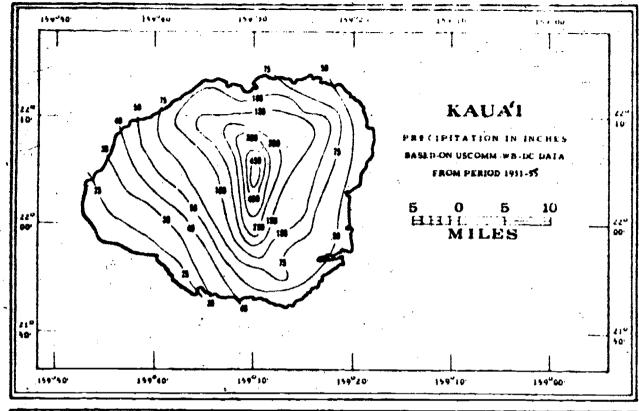
OFFICE OF SOCIAL STUDIES - DEPARTMENT OF EDUCATION - STATE OF HAWAII

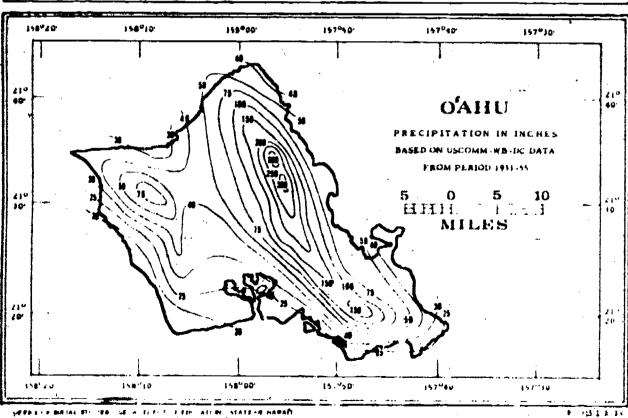


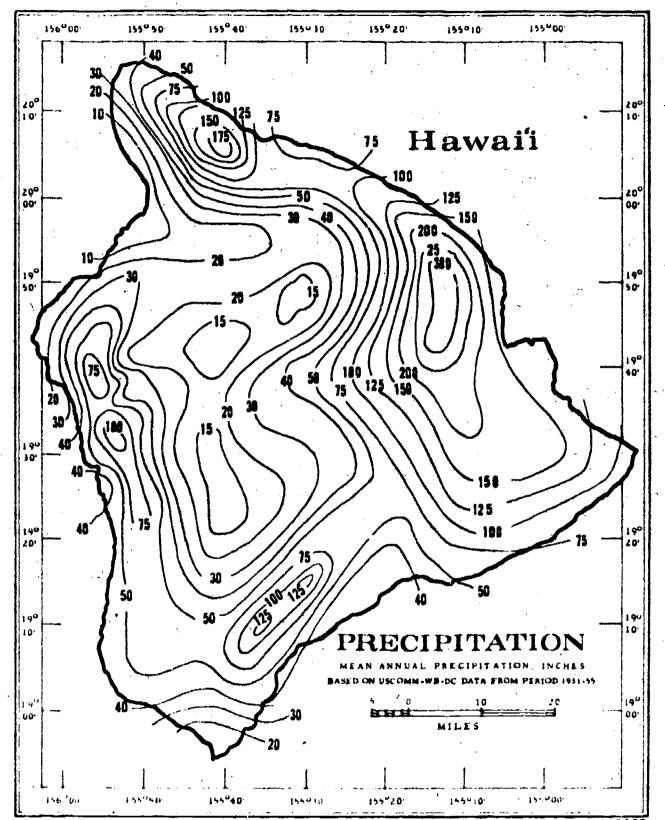
1550 10 **HAWAI'I** 1550 10. 





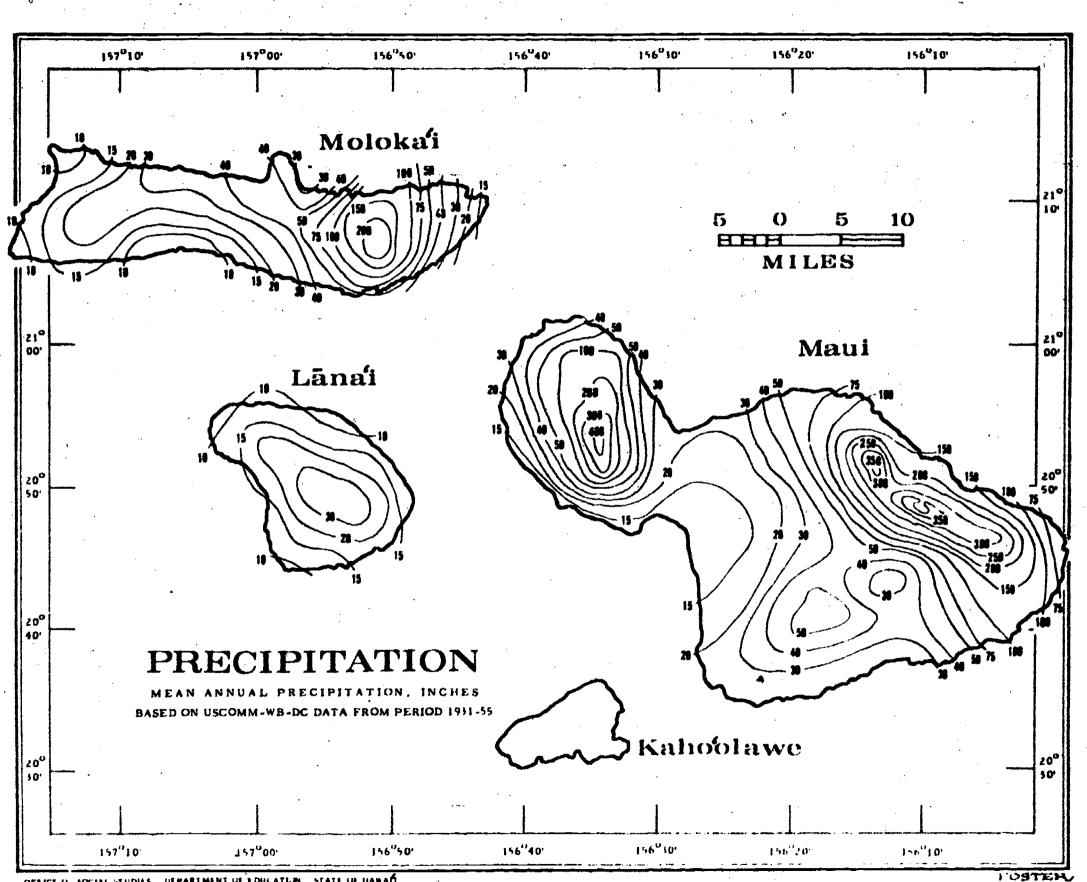






OFFICE OF SOCIAL STUDIES DEPARTMENT OF EDUCATION , STATE OF HAWAIT





OFFICE O SOCIAL STUDIES DEPARTMENT OF FOUCATERS STATE OF HAWAIT

# HAWAIIAN CONCEPTS DEPICTED IN ARTWORK IN THIS GUIDE

Concept	Meaning	Page in Guide
'Imi Na'auao	To seek knowledge; scholarship	xii
Mana	To have supernatural or divine power; spiritual force	47
Alaka'i	To lead; leadership	71
Kūkākūkā	To discuss; consultation	121
Кари	To impose a taboo; sacredness	151
'Aumakua	Family guardian spirit; to honor a departed family member as such	173
'Ho'okipa	To be hospitable; hospitality	203
Hilina'i	To trust; trustworthiness	224
Mālama	To care for; conservation	255
No'eau	To be skillful, clever, wise, artistic; skillfulness, cleverness, wisdom, artistry	272



#### BIBLIOGRAPHY OF TEACHER AND STUDENT REFERENCES

Akana, Akaiko. Hawaiian Herbs of Medicinal Value. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1922. Apple Russell A. The Hawaiian Thatched House. Honolulu, Hawai'i: Island Heritage, undated (early 1970's). Balazs, George W. Hawai'i's Seabirds, Turtles and Seals. Honolulu, Hawai'i: Worldwide Distributors, Ltd., 1978. Barrow, Terence. Incredible Hawai'i. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1974. Beckwith, Martha. Hawaiian Mythology. Honolulu, Hawai'i: University of Hawai'i Press, 1970. Blackman, Maralyn. Hōkūle'a. Honolulu, Hawai'i: Polynesian Voyaging Society, 1976. Boy Scouts of America: Hawaiiana: A Handbook for Scouts. Honolulu, Hawai'i: Aloha Council, BSA, 1978. Buck, Peter (Te Rangi Hiroa). Arts and Crafts of Hawai'i. Honolulu, Hawai'i: Bishop Museum Press, 1964. Buffet, Guy and Pam. Adventures of Kamapua'a. Honolulu, Hawai'i: Island Heritage, Ltd., 1972. Buffet, Guy and Pam. Puapualena. Honolulu, Hawai'i: Island Heritage, Ltd., 1972. Cameron, Robert. Above Hawai'i. San Francisco, Calif.: Cameron and Co., 1977. Cox, Halley J. and Stasack, Edward. Hawaiian Petroglyphs. Honolulu, Hawaii: Bishop Museum Press, 1970. Curtis, Caroline. Builders of Hawai'i. Honolulu, Hawai'i: The Kamehameha Schools Press, 1966. Curtis, Caroline. Life in Old Hawai'i. Honolulu, Hawai'i: The Kamehameha Schools Press, 1970. Day, Grove. Hawai'i and Its People. New York, N.Y.: Meredith Press, 1968. Dickey, Lyle A. Bishop Museum Bulletin No. 54, "String Figures from Hawai'i; Including Some from the New Hebrides and Gilbert Islands." Honolulu, Hawai'i: Bishop Museum Press, 1928 (Krauss Reprint Co., Reprint 1971). Dunford, Betty. The Hawaiians of Old. Honolulu, Hawai'i: The Bess Press, 1980. Elbert, Samuel and Mahoe, Noelani. Na Mele O Hawai'i Nei. Honolulu, Hawai'i: University of Hawai'i Press, 1970. Ellis, Rev. William. "Narrative of a Tour Through Hawai'i." Honolulu, Hawai'i: Hawaiian Gazette, 1917. Ellis, Rev. William. Polynesian Researches: Hawai'i. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1969. Emerson, Nathaniel B. Pele and Hi'iaka: A Myth from Hawai'i. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1978. Emory, Kenneth P., Bonk, William J. and Sinoto, Yoshihoko H. Hawaiian Archaeology: Fishhooks. Bishop Museum Special Publication No. 47. Honolulu, Hawai'i: Bishop Museum Press, 1968. Feher, Joseph. Hawai'i: A Pictorial History. Honolulu, Hawai'i: Bishop Museum Press, 1969.



628

Finney, Ben R. Höküle'a: The Way to Tahiti. New York, N.Y.: Dodd, Mead and Co., 1979.

Fornander, Abraham. Fornander Collection of Hawaiian Antiquities and Folklore. Honolulu, Hawai'i: Bishop Museum Press, 1974.

Gallagher, Charles F. Hawai'i and Its Gods. New York, N.Y./Tokyo, Japan/Honolulu, Hawai'i: Weatherhill/Kapa, 1975.

Gillett, Dorothy. Comprehensive Musicianship Through Classroom Music. Menlo Park, Calif.: Addison-Wesley Publ. Co., 1974.

Gosline, William A. and Brock, Vernon. Handbook of Hawaiian Fishes. Honolulu, Hawai'i: University of Hawai'i Press, 1960.

Gutmanis, June. Na Pule Kahiko: Ancient Hawaiian Prayers. Honolulu, Hawai'i: Editions Limited, 1983.

Gutmanis, June. Kāhuna Lā'au Lapa'au: The Practice of Hawaiian Herbal Medicine. Honolulu, Hawai'i: Island Heritage Ltd., 1976.

Handy, E.S. Craighill et al. Ancient Hawaiian Civilization: A Series of Lectures Delivered at the Kamehameha Schools.

Honolulu, Hawai'i: The Kamehameha Schools, 1933 (Reprint, revised edition: Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1965.).

Handy, E.S. Craighill and Handy, Elizabeth Green. <u>Native Planters in Old Hawai'i: Their Life, Lore and Environment.</u>
Bishop Museum Bulletin No. 233. Honolulu, Hawai'i: Bishop Museum Press, 1972.

Hausman, Ruth L. Hawai'i: Music in Its History. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1968.

Hazama, Dorothy. The Ancient Hawaiians. Honolulu, Hawai'i: Hogarth Press, 1974.

Ho'omāka'ika'i/Explorations. Honolulu, Hawai'i: The Kamchameha Schools, various years.

Hoyt, Helen P. The Princess Ka'iulani. Honolulu, Hawai'i: Island Heritage, 1974.

Hyerdahl, Thor. Kon Tiki. Chicago, Illinois: Rand McNally and Co., 1960.

Ihara, Violet Ku'ulei and Johnson, 'Iliani. The Eight Rainbows of 'Umi. Honolulu, Hawai'i: Topgallant Publishing Co., Ltd., 1976.

'I'i, John Papa. Fragments of Hawaiian History. Honolulu, Hawai'i: Bishop Museum Press, 1963.

Julia Gar P. Hawaiian Proverbs and Riddles. Bishop Museum Bulletin No. 77. Honolulu, Hawai'i: Bishop Museum Press, 1971.

Kahar Dorothy. Music of Ancient Hawai'i: A Brief Survey. Hilo, Hawai'i: Petroglyph Press, 1962.

Kamaka Jamuel M. Ka Po'e Kahiko: The People of Old. Honolulu, Hawai'i: Bishop Museum Press, 1964.

Kamakau, Samuel M. Ruling Chiefs of Hawai'i. Honolulu, Hawai'i: The Kamehameha Schools Press, 1961.

Kamakau, Samuel M. The Works of the People of Old: Na Hana a ka Po'e Kahiko. Honolulu, Hawai'i: Bishop Museum Press, 1976.

Kapepa, Stanley. A Canoe for Uncle Kila. Honolulu, Hawai'i: Polynesian Voyaging Society, 1976.

Kelly, John M. Jr. Folk Songs Hawai'i Sings. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., Inc., 1962

Krauss, Beatrice H. Creating a Hawaiian Ethnobotanical Garden. Honolulu, Hawai'i: Lyon Arboretum, 1980.

Krauss, Beatrice H. Ethnobotany of Hawai'i. Honolulu, Hawai'i: University of Hawai'i, 1974.

Lattimore, Eleanor. Peach Blossom. New York, N.Y.: Harcourt, 1943.



Lindo, Cecilia Kapua. A Curriculum Guide on Polynesian Voyaging. Honolulu, Hawai'i: Polynesian Voyaging Society, 1980.

Lindo, Cecilia Kapua. Polynesian Seafaring Heritage. Honolulu, Hawai'i: Polynesian Voyaging Society, 1980.

Louie, Ai Ling. Yeh-Shen: A Cinderella Story from China. New York, N.Y.: Philomel Books, 1982.

Lucas, Lois. Plants of Old Hawai'i. Honolulu, Hawai'i: Bess Press, 1982.

Luomala, Katharine. Menehune of Polynesia. (Reprinted edition of Bishop Museum Bulletin No. 203) Honolulu, Hawai'i: Bishop Museum Press, 1971.

Luomala, Katharine. Voices on the Wind: Polynesian Myths and Chants. Honolulu, Hawai'i: Bishop Museum Press, 1955.

Lyons, Barbara. Fire and Water and Other Hawaiian Legends. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1973.

Māhoe, Edwina Noelani. <u>E Hīmeni Hawai'i Kākou</u>. Honolulu, Hawai'i: Governor's Committee on Hawaiian Text Materials, 1973.

Malo, David. Hawaiian Antiquities. Honolulu, Hawai'i: Bishop Museum Press, 1971.

McBride, Leslie R. About Hawai'i's Volcanoes. Hilo, Hawai'i: Petroglyph Press, 1977.

McBride, Leslie R. Petroglyphs of Hawai'i. Hilo, Hawai'i: Petroglyph Press, 1972.

McBride, Leslie R. Practical Folk Medicine of Hawai'i. Hilo, Hawai'i: Petroglyph Press, 1975.

McBride, Leslie R. The Kahuna. Hilo, Hawai'i: The Petroglyph Press, 1972.

Mc Dermott, John F., Tseng, Wen-Shing and Maretzki, Thomas W. People and Cultures of Hawai'i. Honolulu, Hawai'i: University Press of Hawai'i, 1980.

McGath, Vicky L. General Introduction to Polynesian Cultures, An Annotated Bibliography. Honolulu, Hawai'i: A Hawai'i Bicentennial Commission Project, 1976.

McKeon, Sean. Hawaiian Animal Life Coloring Book. Honolulu, Hawai'i: Oriental Publishing Co.

Mellen, Kathleen D. Hawaiian Heritage. New York, N.Y.: Hastings, 1963.

Mitchell, Donald K. Hawaiian Games for Today. Honolulu, Hawai'i: The Kamehameha Schools Press, 1975.

Mitchell, Donald K. Resource Unit in Hawaiian Culture. Honolulu, Hawai'i: Kamehameha Schools Press, 1972 and 1982.

Morrill, Sibley S. Kahuna: The Black and White Magicians of Hawai'i. Boston, Mass.: Brandon Press, 1969.

Mower, Nancy. The Vision of Mo'ikeha. Honolulu, Hawai'i: Polynesian Voyaging Society, 1976.

Mower, Nancy. The Voyage to Tahiti. Honolulu, Hawai'i: Polynesian Voyaging Press, 1976.

Mrantz, Maxine. Hawaiian Monarchy: The Romantic Years. Honolulu, Hawai'i: Tongg Publishing Co., 1974.

Mrantz, Maxine. <u>Hawai'i's Tragic Princess: Ka'iulani, the Girl Who Never Got to Rule</u>. Honolulu, Hawai'i: Aloha Graphics and Sales, 1980.

Mrantz, Maxine. Women of Old Hawai'i. Honolulu, Hawai'i: Aloha Graphics. 1975.

Munro, George C. Birds of Hawai'i. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1960.

### National Geographic Magazine, December, 1974.

Ne, Harriet. Legends of Moloka'i. Honolulu, Hawai'i: Topgallant Publishing Co., Ltd., 1981.

Potter, Norris W. and Kasdon, Lawrence M. Hawai'i Our Island State. Honolulu, Hawai'i: Bess Press, 1979.

Pratt, Helen G. The Hawaiians, An Island People. Rutland, Vermont/Tokyo, Japan: Charles E. Tuttle Co., 1963.

Pūku'i, Mary K. 'Ölelo No'eau: Hawaiian Proverbs and Poetical Sayings. Honolulu, Hawai'i: Bishop Museum Press, 1983.

Pūku'i, Mary K. and Curtis, Caroline. Pikoi. Honolulu, Hawai'i: Kamehameha Schools Press, 1949.

Pūku'i, Mary K. and Curtis, Caroline. Tales of the Menehune. Honolulu, Hawai'i: Kamehameha Schools Press, 1960.

Pūku'i, Mary K. and Curtis, Caroline. The Water of Kane. Honolulu, Hawai'i: Kamehameha Schools Press, 1951.

Pūku'i, Mary K. and Elbert, Samuel H. Hawaiian Dictionary. Honolulu, Hawai'i: University Press of Hawai'i, 1973.

Pūku'i, Mary K., Elbert, Samuel H. and Mo'okini, Esther T. <u>Place Names of Hawai'i</u>. Honolulu, Hawai'i: University Press of Hawai'i, 1974.

Pūku'i, Mary K. and Korn, Alfons. The Echo of Our Song. Honolulu, Hawai'i: University Press of Hawai'i, 1973.

Pūku'i, Mary K. et al. <u>Nānā I Ke Kumu, Volume I</u>. Honolulu, Hawai'i: Hui Hānai, 1972.

Pūku'i, Mary K. et al. Nana I Ke Kumu, Volume II. Honolulu, Hawai'i: Hui Hanai, 1979.

Rainey, Bernadette. Ethnic Art Projects. Honolulu, Hawai'i: Multicultural Awareness Project UH-CRDG, 1977

Rubincan, Milton. America's Only Royal Family. Washington D.C.: National Genealogical Society, 1968.

Sterling, Elspeth P. Compiled Index to Ruling Chiefs of Hawai'i. Honolulu, Hawai'i: Bishop Museum Press, 1974.

Sterling, Elspeth P. and Summers, Catherine C. Sites of O'ahu. Honolulu, Hawai'i: Bishop Museum Press, 1978.

Stewart, Charles S. Journal of a Residence in the Sandwich Islands. Honolulu, Hawai'i: University Press of Hawai'i, 1970.

Summers, Catherine. <u>Hawaiian Fishponds</u>. Honolulu, Hawai'i: Bishop Museum Press, 1964.

Tang, Yungmei. China Here We Come. New York, N.Y.: Putnam Co., 1961.

Thompson, Vivian. 'Aukele the Fearless, A Legend of Old Hawai'i. Chicago, Illinois: Childrens' Press, 1972.

Thompson, Vivian. Hawaiian Tales of Heroes and Champions. New York, N.Y.: Holiday House, 1971.

Titcomb, Margaret. Native Use of Fish in Hawai'i. Honolulu, Hawai'i: University Press of Hawai'i, 1972.

Winne, Jane. 'Olelo No'eau A Ka Hawai'i. Honolulu, Hawai'i: Bishop Museum Press, 1961.



### SUGGESTED REFERENCES FOR TEACHERS

- DOE. Nonbook Hawaiiana. (Nakamura, Margaret and Nakamura, Richard) Nanakuli Model Schools Project, 1974.
- DOE. <u>Unit on Nutrition</u>. Nānākuli Model Schools Project, TAC 73-6465.
- DOE/Honolulu District/Bernice P. Bishop Museum. Research Materials Bulletin No. 1, "Hawaiian Barkcloth or Kapa." (Ihara, V. Ku'ulei), 1979.
- DOE/Honolulu District/Bernice P. Bishop Museum.

  A Supplement. (Ihara, V. Ku'ulei), 1979.

  Research Materials Bulletin No. 15, "Life in Ancient Hawai'i Foods" -
- DOE/Honolulu District/Bernice P. Bishop Museum. Research Materials Bulletin No. 16, "Ka Helu Hawai'i--Hawaiian Enumeration." (Ihara, V. Ku'ulei), 1979.
- DOE/OIS. Artmobile Hawai'i Ho'onani. RS 81-1879, October 1981.
- DOE/OIS. Bibliography for Hawaiian Studies. RS 81-2106, December 1081.
- DOE/OIS. Coral: A Hawaiian Resource. RS 81-0652, March 1981.
- DOE/OIS. Culture Studies: Hawaiian Studies Project and Data Box. (Hazama, Dr. Dorothy--Editor) RS 78-6531, November 1978.
- DOE/OIS. Early Hawaiian Life. RS 81-1647, August 1981.
- DOE/OIS. Elementary Social Studies Program Guide. RS 81-1136, July 1981.
- DOE/OIS. Geography and Geology of Hawai'i, No. 2. RS 71-2306, 1971.
- DOE/OIS. Handbook of Community Resources and Visitation Sites. RS 80-9789, 1980.
- DOE/OIS. Integrating Library Skills into Content Areas: Sample Units and Lesson Planning Forms. RS. 79-2431, November 1979.
- DOE/OIS. Nã Papa Hawai'i. (Ho'onani: Artmobile Hawai'i) TAC 72-4339.
- DOE/015. Na Ka'ao Kahiko/Illustrated Bilingual Hawaiian lales.
- DOE/OIS. Ha Ki'i Ho'ona'auac/Instructional Visuals, Series 1 and 11.
- DOE/OIS. Resource Units in Hawaiian Arts and Crafts. RS 81-0719, April 1980.
- DOE/OIS. Science in Hawai'i/'O Ke Akeakamai Ma Hawai'i: A Lourth Grade ETV Guide. RS 81-1696, September 1981.
- DOE/UH-CRDG. Hawai'i Multicultural Awareness Project: Families in Hawai'i and Times for Celebration. 1979.
- DOH (Department of Health). Foods Used in Hawai'i, Comparative Nutritive Values, March 1971.
- Governor's Committee on Hawaiian Textual Materials/DOE. Our Cultural Heritage/Hawai'i. TAC 72-4370. 1973



#### DISCOGRAPHY OF PHONOGRAPHIC RECORDING REFERENCES

### Long-playing Albums

Alfred Apaka's Greatest Hits, Capitol Records, SM-2088, Alfred Apaka.

Brothers Cazimero: Hawaiian Hula Eyes, Mountain Apple Co., MAC-1017, Brother Cazimero.

Ha'aku'i Pele I Hawai'i, Hula Records, HS-560, Edith Kanaka'ole.

Hawaiian Time, Hawaiian Aloha Records, 5301, Irmgard Aluli and the Farden Family.

Hi'ipoi I Ka 'Aina Aloha, Hula Records, HS-568, Edith Kanaka'ole.

I Am What I Am, Decca Records, 1001, Danny Kaleikini.

Ka Nani O Kaua'i, Pumehana Records, PS-4917, Nã Kaholokula.

Keiki O Waimanalo, Tradewinds Records, TS-1201, Waimanalo Keiki.

Mele Hula, Noelani Records, NRS 102, Volumes I & II, various artist.

Mele Inoa, Poki Records, SP 9003, Ka'upena Wong and Pele Püku'i Suganuma.

Mokulana, Banyon Records, 700, Leon and Malia.

The Musical Sage of the Höküle'a, Music of Polynesia Records, MOP-43000, Roland Cazimero and Keli'i Tau'ā.

Nã Mele Hawai'i No Nã Keiki, Hula Records, HS-510, Lani Lahela and Nina.

Pua 'Ōlena, Pumehana Records, PS-4920, Lim Family.

638

This Is Eddie Kamae, Hula Records, H-513, Eddie Kamae with the Sons of Hawai'i.

You Gotta Feel Aloha, Chaale Records, CRS-7777, Al and Clayton Nalua'i

#### 45-rpm Record

"Alu Like," Prism Records, Haunani Apoliona. (If unavailable in record stores, check with Alu Like, Inc. on any island.)



## IST OF FILM REFERENCES

Reference Number	Film Name	,
0279	"Biography of a Fish"	
5681	"Coral Jungle"	\
4148	"Coral Reefs"	
5728	"Great Barrier Reef"	
3685	"Hawaiian Fishhooks"	Ì
1170	"The Hawaiian Islands: Their Origin and Nature"	. /
HPT 1974-TAC	"Kalākaua Family"	
1540	"King of the River"	
3144	"What Is a Fish?"	
0930	"Fish Are Interesting"	\$ 
3395	"Sports of Old Hawai'i"	
	FILMSTRIPS	
"Ki'i Pōhaku"	Petroglyphs, provided to all schools for fourth grade	
"Foods of Hawai'i"	Provided to intermediate schools for seventh grade	
"Resources of the Ahupua'a"	Available from the University of Hawai'i, Curriculum Res Development Group, College of Education; part of The of Modern Hawaiian History, good teacher information	earch and Shaping

#### SONGS AND CHANTS

TITLE	UNIT	PAGE NO. IN HSCG	TITLE TRANSLATION/ SONG TOPIC/SUBJECT	OTHER SOURCES*
Aia Lā 'O Pele	. I	19, 42	Hi'iaka's description of Pele	Mele Hula, LP, Noelani Records Mele Inoa, LP, Poki Records
'Alekoki	VI	193	'Alekoki pond, Nu'uanu Stream . /	NMHN, pp. 32-33
Aloha	٧ <sup>a</sup>	111, 116	Meaning of <u>aloha</u>	Hawaiian Time, LP, Hawaiian Aloha Records
Aloha 'Oe	Vp	131	. Love song used as song of farewell	EHHK, p. 4
Alu Like	va. Va	113, 117	Working together	
'Ainahau	V <sub>p</sub>	131	Princess Ka'iulani's Waikīkī home	EHHK, p. 5
Arirang	11/111	63	Korean folktune about Arirang Mountain	Kelly. Folk Songs Hawai'i Sings, p. 72
'Auhea 'O Ka Lani Lā?	٧ <sup>b</sup>	133	Name song for William Charles Lunalilo	NMHN, p. 36
Blue Flower	II/III	63	Chinese folk song	Kelly. op. cit., p. 66
E Pele, E Pele	1	17, 46	Name chant for Pele	
Hanohano Hanalei	A1 <sub>c</sub>	193	Place name song for Hanalei, Kaua'i	NMHN, p. 41
Hawai'i Pono'i	yb	131	National, Territorial, State Anthem	EHHK, p. 16
He Inoa No Likelike	Vp	131	Name song for Princess Miriam Likelike	Comp. Musicianship Prog., Zone 3, Book A, pp. 230-246
He 'Ono	VII	215	Various fish delicacies	NMHN, p. 48
Hilo Hanakani	I	9	Rains/winds of the districts on Hawai'i	NMHN, p. 50
Hoe Aku I Kou Wa'a	II/III	. 72	Canoe paddling song	

## \*UTHER SOURCES:

EHHK - E Hīmeni Hawai'i Kākou, compiled by Noelani Māhoe, Governor's Committee, 1973. (Accompanying tapes; sent to all school libraries)

NMHN - Nā Mele o Hawai'i Nei, 101 Hawaiian Songs, collected by Samuel H. Elbert and Noelani Māhoe, UH Press, 1970.



TITLE	UNIT	PAGE NO. IN HSCG	TITLE TRANSLATION/ SONG TOPIC/SUBJECT	OTHER SOURCES*
Hohoa Kuku	IX	285	Song for beating <u>kapa</u>	
Ho'okupu Chant	٧c	159, 172	Song for the <u>Makahiki</u> Festival	
Huki İ Ke Kalo	VI	191, 202	Steps in the <u>poi-making</u> process	
Hukilau	VII	215	English lyrics about seine net fishing	Alfred Apaka's Greatest Hits, LP, Capitol Record
Humuhumunukunukuapua'a	VII	221, 234	English lyrics about the trigger fish	Hawaiian Time, LP, Hawaiian Aloha Records
I Am What I Am	11/111	59	Reinforcing positive self-concept	I Am What I Am, LP, Decca Records Comp. Musicianship Prog., Music, Grade 6, p. 3
Iã 'Oe E Ka Lã	· Ap	129	ne song for King Kalakaua	NMHN, pp. 55 <sup>-5</sup> Mele Inoa, LP, Poki Records
Ķā I Ka Hoe	II/III	70 /	Canoe paddling song	Keiki o Waimanalo, LP, Tradewinds Records
Ka Inu Wai/Maika'i ka Makani o Kohala	VIII	261, 270	Place name song for Kohala, Hawai'i	
Ka Na'i Aupuni	٧b	129, 136	Song honoring Kamehameha and other chiefs	Comp. Musicianship Prog., Zone 3, Bk. A, pp. 250-254
Ka Ua Loku	VI	193	The pouring rain of Hanalei, Kaua'i	NMHN, p. 62
Ka Uluwehi O Ke Kai	VII	223	Plants of the sea - limu (seaweed)	Hi'ipoi I Ka 'Āina Aloha, LP, Hula Records
Käne†phe	VIII	262	The bringing of electricity to Kane'ohe	NMHN, p. 61
Ke Ānuenue	I	11	Rainbows and other natural phenomena	Hawai'i's Leo Nahenahe Singers, LP, Trade- winds Records; EHHK, p. 81
Ke One Kaulana O Hawai	'i IV	95	Place name song about the districts on the Island of Hawai'i	Hi'ipoi I Ka 'Āina Λlpha, LP, Hula Records
Kilakila 'O Haleakalā	IV	95	Haleakalā mountain, Maui	NMHN, p. 66
Koa'e	γc	169	The tropicbird	Hawai'i's Folksingers, LP, Tradewinds Records
Kokōhi	VI	193	Love song about spring water and one's search for happiness	NMHN, pp.,66-67
Kua Loloa Kea'au	I	15	Chant about Pele	Ha'aku'i Pele I Hawai'i, LP, Hula Records
Kupa Landing	IV	95	Coopen's Landing in Ho'okena, Hawai'i	NMHN, pp. 68-69



TITLE	UNIT	PAGE NO. IN HSCG	TITLE TRANSLATION/ SONG TOPIC/SUBJECT	OTHER SOURCES*
Ku'u Home O Nā Pali Hāuliuli	IV	. 95	Song honoring the composer's home in Kane'ohe, O'ahu	NMHN, pp. 69-70
Ku'u Lei Pūpū	VII	217	My shell <u>lei</u>	NMHN, p. 72 EHHK, pp. 84-85
Ku'u Pūpū Kau Põhaku	I	23	My shell clinging to the rocks	EHHK, pp. 86-87 Nā Mele Hawai'i No Nā Keiki, LP, Hula Records
Ku'u Wa'a	11/111	67	My canoe	EHHK, p. 36 Nā Mele Hawai'i No Nā Keiki, LP, Hula Records
Lei 'Ilima	νc	163	Lei song about the 'ilima flower of O'ahu	King's Book of Hawaiian Melodies, p. 74
Lili'u E	νb	129, 135	Name song for Lili'uokalani .	Keiki O Waimanalo, LP, Tradewinds Records
Lovely Narcissus Flower	11/111	63	Chinese folk song	Young & Lum, ibid.
Makalapua	V <sup>C</sup>	163	Name song for Lili'uokalani	Hausman. Hawai'i: Music In Its History, pp. 76-77 EHHK, pp. 42-43
Manu 'Ö'ö	, V <sup>C</sup>	169	Song about the 'ō'ō bird whose feathers were used to make precious featherwork	NMHN, p. 77
Nā Hala O Naue	٧ <sup>c</sup>	163	Song about the famous pandanus trees of Naue, Hanalei district, Kaua'i	NMHN, pp. 80-81 Keiki O Waimānalo, LP, Tradewinds Records
Nã Hoe Wa'a	II/III	67	The canoe paddlers	EHHK, p. 92 <u>Nā Mele Hawai'i No Nā Keiki</u> , LP, Hula Records
Nā 'Ono O Ka 'Āina	VII	225	Plant delicacies of the land	NMHN, Å. 82
Noho Ana I Hilo	I	21	Chant for Pele	<u>Ha'aku'i Pele I Hawai'i</u> , LP, Hula Records
Old Plantation	VIII	260	Place name song for the Ward Estate, now the Neal S. Blaisdell Center (NBC)	NMHN, p. 82
'Ōpae E	I, VII	25, 219 34	Various sea creatures are asked to save a young girl held captive by a <u>puhi</u> (eel)	Hawaiian Hula Eyes, LP, Mountain Apple Co. Mokulana, LP, Banyon Records This Is Eddie Kamae, LP, Hula Records
Planting Rice	11/111	61	"Magtanim ay di biro," Philippines folk song	Kelly. √ <u>op. cit.</u> , p. 56
Pua Aloalo	٧ <sup>c</sup>	163	Hibiscus flower	Nã Mele Ho'ona'auao/HS Music Resource.Book
	è	46	329	647

TITLE	UNIT	PAGE NO. IN HSCG	TITLE TRANSLATION/ SONG TOPIC/SUBJECT	OTHER SOURCES*
Pua Kukui	v <sup>c</sup>	163	The flower of the candlenut tree (the State Tree)	Johnny Noble's Collection of Ancient and Modern Hula, p. 18
Pua 'Ōlena	VC	163	The flower of the turmeric plant	Ka Nani O Kaua'i, LP, Pumehana Records Pua 'Olena, LP, Pumehana Records
Pūpū O 'Ewa	VIII	<b>262</b>	Place name song honoring the 'Ewa dis- trict and Ka'ahupāhau, the Shark Goddess of Pu'uloa (Pearl Harbor)	NMHN, pp. 87-88
Sakura	11/111	61	Cherry blossom folksong from Japan	Kelly. op. cit., p. 42
Siva Siva Maia	11/111	61	Samoan dance song	Kelly. <u>op. cit.</u> , p. 34
Sweet Leilehua	Vc	163	Garland of <u>lehua</u> blossoms	Hausman. <u>cp. cit.</u> , pp. 42-43
Wai O Ke Aniani	٧I	193	Cool, crystal clear water	NMHN, pp. 93-94
You Come My House	VIII	263, 274	Local hospitality, introduced foods	Melody on <u>Waikiki Beach Girl</u> , LP, Tradewinds Records (different lyrics than those used in this guide)