DOCUMENT RESUME

ED 125 951

SO 009 232

TITLE

The Otica Plan for "Project Search" (Kindergarten

through Twelfth Grade), Yolune I.

INSTITUTION

General Learning Corp., Washington, D.C.; Utica City

School District, H. 7.

PUR DATE

[lug 72]

HOTE

199p.; Por related documents, see ED 120 075 and SO

009 231

BDES PRICE

MF-\$0.83 HC-\$10.03 Plus Postage.

DESCRIPTORS

Course Descriptions; *Curriculum Development;

Educational Programs; Elementary Secondary Education; *Humanistic Education; Humanities; *Interdisciplinary

*Humanistic Education; Humanities; *Interdiscipiinal;
Approach: *Program Descriptions; Social Studies;

*Unified Studies Programs

IDENTIFIERS

*Project SEAECH

ABSTRACT

This document is a report on the first phase of an interdisciplinary K-12 curriculum development for Utica, Hew York schools. Project SEARCH is a unified approach to a humanistic curriculum which focuses on man and his relation to others and the world. The curriculum model contains 10 parts which relate man to his self-image, family, community, physical environment, work, play, art, conflicts, aspirations and fears, and gods. The report contains eight sections. Part one briefly describes the project. Part two outlines the curriculum model. Part three, the major section, lists the various components of the curriculum. Part four theoretically describes how the concepts in the curriculum flow from grade to grade. Part five describes several aids used in the curriculum development process. Part six describes the procedures for developing the study units in each component. Part seven describes the study units developed for the component dealing with man and the physical environment. Finally, part eight is a series of recommendations for implementing the curriculum. (DE)

THIS DOCUMENT HAS BEEN REPRO-DUCED EXECTLY AS RECEIVED FROM THE PERSON OR DROLANIZATION ORIGINA-ATINES IN POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRE-SENT OFFIC AL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

The Utica Plan

for

PROJECT SEARCH (Kindergarten through Twelfth Grade)

Volume I

Developed by
General Learning Corporation
Working with Eighty Teachers from the
Public and Parochial Schools of
Utica, New York

July 5 through August 11, 1972

Educational Services Division General Learning Corporation 2139 Wisconsin Avenue, N. W. Washington, D. C. 20007

TABLE OF CONTENTS

1.	BRIEF DESCRIPTION OF PROJECT SEARCH AND THE SUMMER 1972 WORKSHOP	,
2.	PRESENTATION OF THE MODEL: MAN AND HIS WORLD	,
3.	COVERAGE BY STRAND FOR THE MAN AND HIS WORLD MODEL	14
	Man and His World Model	18
	Man And His Intimates	24
	Man And His Community	28
} -	Man In His Physical Environment	56
	Man At Work	80
	Man At Play	90
	Man As Creator and Explorer	94
	Man In Conflict	106
	Man And His Aspirations and Fears	114
•	Man And His Gods	119
	The Learning Experience	126
4. •	GENERAL CURRICULUM COVERAGE BY GRADE LEVELS	129
5,	AIDS TO CURRICULUM DEVELOPMENT FOR THE MAN	•
	AND HIS WORLD MODEL	139
	5.1 Working Definitions	139
	5.2 Stimulus/Feeling/Thinking/Valuing/Acting	
	Procedure	140
	5.3 Questioning Grid	147
	5.4 Pittsburgh Model	·149
-	5.5 A Checklist of Learning Techniques, Activities,	
	Exercises, and Experiences	152
6.	PROCEDURE FOR DEVELOPING UNITS FOR EACH STRAND OF THE MODEL	168
7.	UNITS BY GRADE LEVELS FOR THE STRAND: MAN IN HIS	•
	PHYSICAL ENVIRONMENT	173

8.	RECOMMENDATIONS			175
•	8.1 ¢	General		175
	8.2	Structural Changes -		176
	8.3	Use of Special Teachers	•	178
	8.4	Children with Special Learning Needs	•	179
	8.5	Plans for Developing Project Search During the	•	
	0.0	Coming Year		180
F S	8:6	Community and Student Involvement-Commitment	• _	
•		in the Planning Process	•	183

۳.

General Learning Corporation Team Working on Project Search, Utica, New York

Miss Brenda Bryant

Miss Renee Cherow

Dr. Robert Kohls, Project Leader

Dr. Joseph Lipson

Mrs. Jesse Wright

1. BRIEF DESCRIPTION OF PROJECT SEARCH AND THE SUMMER 1972 WORKSHOP

Utica was chosen as one of six sites in the State of New York to implement a model program of in-service training and curriculum redesign known as Project Search. The Utica City School District and the St. Francis de Sales Parochial School of Utica are cooperating in this on-going venture. July 1, 1972 was set as the start-up date, and this document is a report on the first phase of that project.

Project Search has as its goal the creation of a humanistic curriculum — one built around man and one aimed at serving man's needs. The curriculum is to be different from what has preceded it in that it will no longer be fragmented into the traditional subject-matter divisions. Instead, it will develop a unified approach which will carry the same human concerns from kindergarten through grade twelve.

It is to focus on four specific objectives:

Reasoning

Involving such skills as:

- Analyzing
- Synthesizing
- Induction
- Deduction
- Inference
- Intuition



Valuing

Involving such skills as:

- Making choices
- Identifying alternatives
- -- Being aware of consequences
- Making decisions
- Re-evaluating

Affective Development

Developing:

- Feelings
- Interests
- Attitudes
- Appreciation

Processing

Involving:

- · Behavior
- Interpretation
- Extrapolation
- Generalizing
- Coordination

Further, it must allow sufficient flexibility for students with differing abilities and interests to develop in ways most compatible with their own individual needs.

Project Search was not intended to be adopted across-the-board in all of Utica's schools overnight. Rather, a four-year plan was proposed for the development and dissemination of this new, human-centered approach. The time projection is:

School Year 1972-73

Approximately 80 elementary and high school teachers are to



new curriculum units around one strand of the adopted model.

A Project Coordinator is to be identified, and the 80 core teachers are to be oriented to their task. Throughout the school year the units for the remaining strands are to be developed. Performance-based objectives and a system of evaluation will be developed.

School Year 1973-74

A K-8 pilot school (Seymour) will implement the program as designed during the entire first year. The program will be revised and upgraded constantly, and the development of additional materials will continue. Training for all elementary and junior high teachers will be provided and they will all receive the materials which have been produced. The pilot high school staff will prepare to implement the program next year.

School Year 1974-75

The pilot high school will implement the program as designed during the two previous years. A second K-8 pilot school will implement the program. All teachers in the system will be trained to participate in Project Search.

School Year 1975-76

All twenty-two schools in the Utica City School District will implement Project Search,

To assist Utica in initiating this new program, the Educational Services Division of General Learning Corporation was called in to provide leadership and direction. General Learning Corporation sent a team of five curriculum specialists to Utica to help develop the model and working process, and to serve as specialists in presenting a workshop where 80 teachers would design curriculum units at each grade level from kindergarten through twelfth grade, for one strand of the new model.

The major tasks carried out by the team of General Learning consultants were:

- To work with a group of ten teachers and administrators* (known as the Workshop Planning Committee) to develop the model (see Section 2.), its component strands (Section 3.), and all its major concepts;
- To complete an analysis of the current subject matter coverage on all grade levels and to insure that all its aspects could be subsumed within the new model;
 - To plan and implement a workshop for 80 teachers and to orient them to the characteristics of a humanistic curriculum, the model, and its underlying concepts (Section 5.);

ilefantë correct tit confisert Lor Eichl Labella

Mrs. Diane Abbey, Mr. Henry Albrecht, Mr. Louis Cizza, Miss Bernadette Eichler (Supervisor of Curriculum for the Elementary Schools), Dr. Angela Elementary Coordinator of Project Search), Mrs. Dolores Freed (Language Development Coordinator), Mr. Senatro La Bella (Supervisor of Curriculum for the High Schools), Miss Patricia MacNamara, Sister Dorothy Root (Principal of St. Francis de Sales Elementary School and representative of the Parochial Schools of Utica), and Mr. Peter Sabino (Principal of Seymour Elementary and Junior High School which will be the pilot school for Project Search).

To develop the process by which the curriculum units would be developed (Section 6.), and to train the Workshop participants to be able to develop the units around one selected strand of the model (Section 7, Volumes II and III.) from kindergarten through twelfth grade; and To indicate the curriculum coverage which should fall under each strand for each grade level (Section 3 and 4.).

The Project Leader of the General Learning team arrived in Utica on July 5th. He met immediately with the Project Search Standing Committee and gave them an overview of the process to be used to initiate Project Search and plan the Summer Curriculum Workshop. He was soon joined by three other consultants and the planning process began immediately.

The week of July 10th was spent in developing the model and its component strands and planning the Workshop with the Workshop Planning Committee. During the week of July 17th, materials and resources for the Workshop itself were produced.

The three-week Workshop began July 24th. The first week was spent in orienting the 80 participants to the attitudes, understandings, behaviors, and values appropriate to a humanistic curriculum and in familiarizing them with the model, its strands, and concepts.

The second and third weeks of the Workshop were largely taken up with presenting the procedure for developing the actual curriculum units around the

strand, Man in His Physical Environment. The last two days were reserved for refining the units already produced, planning for related needs (See Section 8.), and briefing participants on plans for the further development of Project Search throughout the coming year (Section 8.5).

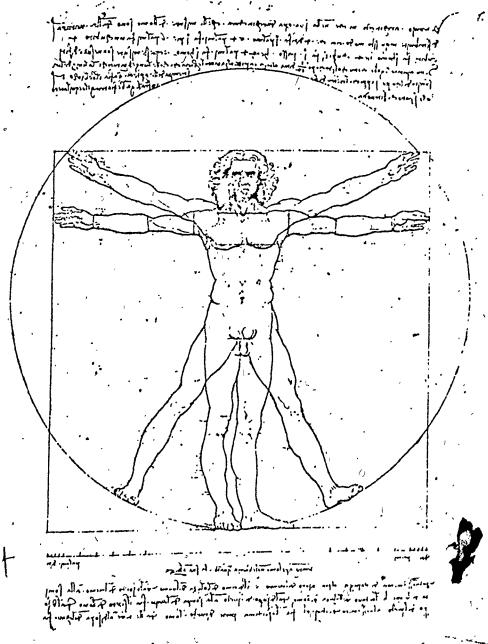
The week of August 14th was spent in gathering materials, writing, reworking, editing, typing, and printing the final report.

The model, the strand coverage, the process for developing the curriculum units, and the units themselves were specifically designed for Utica -- and all within an amazingly short span of time. They were not pieced together from borrowed ideas developed five years ago in distant school systems. In this process, the General Learning consultants worked as a team, first very closely with the Workshop Planning Committee and later with the 80 Workshop participants. Here, again, the evolutionary process utilized was new to the administrators most closely connected with Project Search, but it resulted in the creation of a product which General Learning Corporation is pleased to present in this document. Even more, it resulted in the preparation of nearly 80 teachers in the Utica City School System and in the St. Francis de Sales School, who now have the capability to prepare acceptable curriculum units for any strand in the Man and His World model, either individually or in a group.

The section which follows presents the Model in graphic form, showing the genesis of its development.

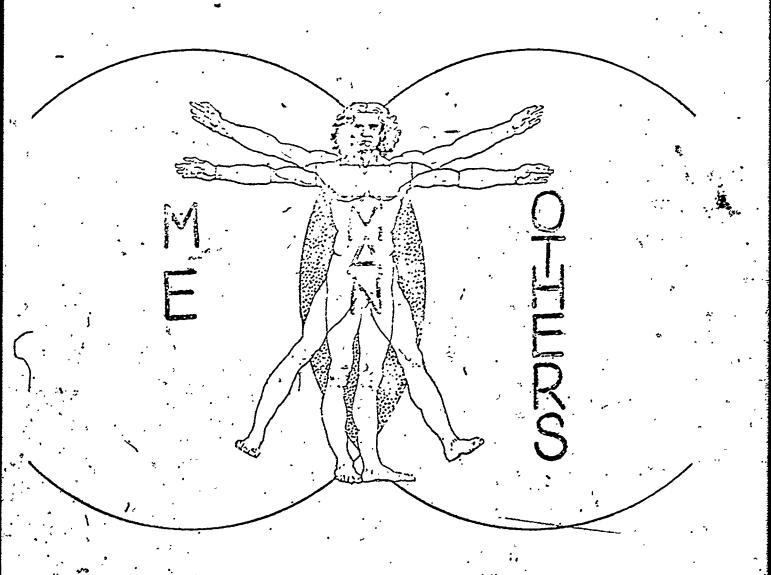
2. PRESENTATION OF THE MODEL: MAN AND HIS WORLD

The symbolism for our model -- Man and His World -- begins with a page out of Leonardo da Vinci's notebook. We have borrowed Leonardo's man as our central image because it depicts man reaching out beyond himself, searching, discovering his potential. In addition, Leonardo symbolizes for all of us a humanist par excellence in one of man's most humanistic ages.



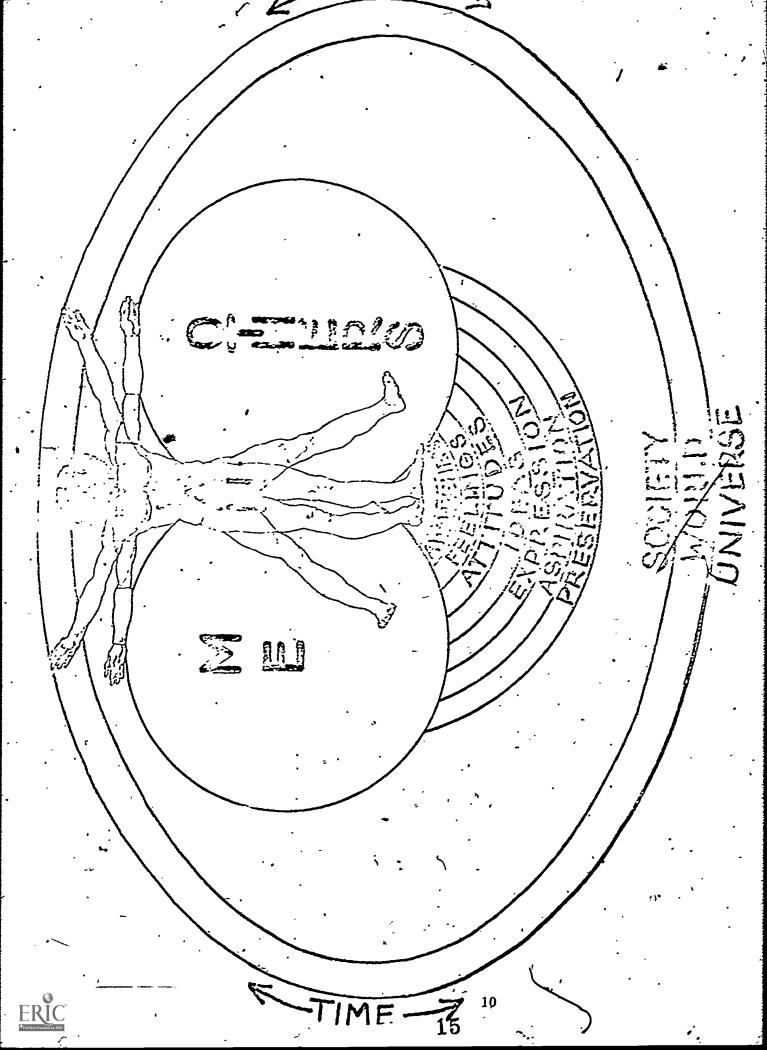
Here Leonardo's man has been superimposed over two overlapping circles to show that for each of us, Man represents:

- 1. ME -- the unique individual, my Self;
- 2. OTHERS -- as I relate to and interact with other human beings, and in the image I develop of other individuals and of other groups;
- 3. MANKIND -- as I try to answer the questions "Who is Man?" and
 "What is his purpose?" and as I realize that I am part of Mankind.



- AWARENESS
- FEELPNGS
- ATTITUDES
- IDEAS
- EXPRESSION.
- ASPIRATION
- PREEERVATION

These are some of the characteristics which make man human and distinguish him from the other creatures. We would like, in a humanistic curriculum, to develop these attributes further at the same time that we teach knowledge and facts.



In the composite diagram on the preceding page (which looks amazingly like a 13th century depiction of the ordered universe) we see Leonardo's man again, reaching beyond himself -- a man who is aware he represents me, mankind, and others, a man with awareness, feelings, attitudes, and all the other characteristics we call human.

This diagram, for example, shows that awareness relates to oneself and others. The diagram further shows that man lives and functions in an ever-expanding society, and in the world, and (as he is only beginning to realize fully) in the universe. The addition of Time on our chart signifies man's historical orientation; Space represents his geographic orientation.

This complex, composite idea which we have developed of Man, up to this point, must now all be incorporated in the reader's mind into the single symbol of Leonardo's man as used in the illustration of our model -- Man and His World -- shown on the following page.

Here, Man is placed in his environment. This becomes our "Model," and the clock-points surrounding man become the "Strands" of our model. These strands, as indicated by the coverage suggested in the next section of this report, appear to be inclusive enough to encompass all of man's activities, thoughts, and yearnings.

We are suggesting starting with the strand Man and His Self-Image (the "Me" on our first chart), then moving to the strand Man and His Intimates (the first extension outside the self -- to family, loved ones, and intimate friends), then to Man and His Community (ever-expanding in scope until it takes in the whole world), and on around the circle to consider the remaining strands.

SELF-IMAGE AND HIS GODS CHAROUNEN LEARAGE CONFLICT ALTO CALLADA WORK

MODEL: MAN AND HIS WORLD

17

1



The Learning Environment, enclosed with a broken line in the center of the diagram, represents those basic skills which, in their most rudimentary form, are necessary to begin with and which are equally applicable to all the strands. These certainly include sensory perception, reading skills, study skills, and mathematical skills.

3. COVERAGE BY STRAND FOR THE MAN AND HIS WORLD MODEL

The coverage of the ten strands of our model is as complete as the short time expended upon it would allow. It obviously is not fully exhaustive and never could be. for every entry sparks many more. At best it is merely suggestive. It is complete enough, however, to demonstrate that everything in man's world logically fits somewhere into this model.

This is the second major revision that the coverage has undergone, and it should be constantly upgraded throughout the lifetime of Project Search.

It is necessary to explain where three major sub-topics (which may not be immediately apparent) have been placed in this model. Transportation has been included in Man In His Physical Environment since it is the means by which man transverses his physical environment; communication is in the strand Man In His Community since it concerns the way man expresses himself to others; geographic areas of the world is also in Man In His Community because it represents man's larger "community."

It should also be pointed out that our goverage list indiscriminantly combines topics (of a more factual nature) with issues (of a more personal, value-colored variety). This is part of its richness, and we suggest this is also a good direction for the human-istic curriculum to take.

The suggested grade level assignments are just that -- suggestions. With imagination (certainly a human quality) and understanding (equally human) nearly every topic can be considered at every level. No one can restrict a creative teacher and no one ought to restrict inquisitive students to follow a tightly inflexible, pre-ordained curriculum.

While many topics are earmarked for the upper grades, the basic underlying concepts necessary for an understanding of the full-blown topic must be developed in the early grades.

This curriculum with its ten strands, will, when all the strands are fully developed. attempt to eliminate the traditional subject matter partitioning of education, but it will still be possible for those teachers with a conservative bent to force Man and His World into the old mold. In fact, all of us may try to do so simply because it is what we are most familiar with. Special attention must therefore be paid not to let this happen for such an approach would be antithetical to a truly humanistic direction.



Because it was the strand for which units were to be prepared in the summer workshops; the coverage of the Man In His Physical Environment strand has been refined and developed to a greater degree than the others. In the future the remaining strands should be refined to this same degree.

The outline which follows shows the basic organization of the Man In His

Physical Environment strand and the breakout of its subdivisions.

New Ordering of Coverage in MAN IN HIS PHYSICAL ENVIRONMENT Strand

MAN'S EXPANDING HORIZONS

- Home as an introduction to his physical environment
- Community as an introduction to his physical environment
 - -- Natural communities
 - -- The shaped environment
 - Further expansion of man's physical cavironment

SPATIAL-TEMPORAL ORIE STATION .

- .: Sense of space
- Sense of time

NATURAL PHENOMENA

- The contour of the universe
 - -- Heavenly bodies
 - -- Land masses
 - · Water masses
 - -- Weather/climate
- Natural resourées
- Natural laws/physics

- Man's biological neighbors
 - -- Animals
 - -- Plants

TAMING THE ENVIRONMENT

- Primal industries
 - -- . Agriculture
 - -- Hunting/trapping
 - -- Fishing
- Tools
- Sources of energy
- Man-madé products
- Transportation
 - -- Men
 - -- · Materials >
- Natural disasters
- SURVIVAL OF THE UNIVERSE: ECOLOGY
- PHILOSOPHICAL CONCEPTS OF THE UNIVERSE

Coverage by Strand for MAN AND HIS WORLD MODEL

MAN...

- And His Self-Image
- And His Intimates
- And His Community
- In His Physical Environment
- At Work
- At Play
- As Creator and Explorer
- In Confict
- And His Aspirations and Fears
- And His Gods
 - The Learning Environment

SECOND DRAFT

Developed by General Leagning Corporation for PROJECT SEARCH, UTICA CITY SCHOOL DISTRICT Utica, New York



HIS SELF-IMAGE . MAN

WHO AM 1?

•		
I am what I think I am	•	
I am what others think I am		K-12
I am what I think others think fram '		
Self-development		
Sensory perception/sense organs (K-2)	٠.	
Feelings	•	
Self-awareness		•
Attitudes		
Ideas		
Self-expression		K-12
Aspiration (H.S.)	` .	
Self-preservation	•	•
' Ideals/goals (K-1)		
Impulses and biological drives (K-1)		•
Awareness of our body and its functions Knowing body parts Physical attributes Coordination	, ·	
Anatomy of human body (and functions of		
various parts)		5 `
Heart		<i>,</i>
Lungs .		•
Liver		, .
etc.	ř	•
Body systems		•
Skeletal		
Muscular /		
Circulatory	•	, X.
Respiratory		J. HH. S
Nervous		
Reproductive	•	•
Waste		
His present self wimage (and his developing	• , •	•
self-image)	•	K-12
		-

WHERE DID I COME FROM?

	_
Writing an autobiography	3-12
Family tree	J. H.
Genetics	H. S.
Heredity/environment argument .	H.S.
Our cultural heritage Judeo-Christian tradition (5-H.S.) Graeco-Roman tradition Renaissance ("Man as the measure of all things") Our own ethnic identity	н. S.
Ethnocentrism (that makes man judge others by his own "rules"—even though they don't apply to the other culture, and that makes him consider his own rules as absolutes)	H.S.
Races of mankind Mongoloid Negroid Caucasoid	J. HH. S.
Y AM I HERE?	•
Uniqueness of self Skills	

3

WH

Talents K-12 Interests Experiences Potential Unique relationships with others K-12 Stress given uniqueness of the individual in modern Western society H.S.

WHERE AM I GOING?

Man's search for self The problem of self-awareness The problem of developing a respectable K-12 opinion of one's self

45

The self he wants to present to others The self he would most like to develop into His confrontation with self His acceptance of self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past culture)		
consequences of choices Freedom from pressures of family, school, church (institutional pressures) Freedom from pressures of peer group Rights and privileges Goals Work goals Life goals With reasons for choices Development of his own personality Devclopment of his own life style Heroes/anti-heroes Whom do I idolize? And pattern my life after? Immigrants Some contributions from first-generation Americans His projected image The self he wants to present to others The self he would most like to develop into His acceptance of self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H.S.) Degree of "success" in competitive world Considering himself to be a contributing member of his groun	▼	K-12 :
Rights and privileges Goals Work goals Life goals With reasons for choices Development of his own personality K-12 Development of his own life style Herocs/anti-heroes Whom do I idolize? And pattern my life after? Immigrants Some contributions from, first-generation Americans His projected image The self he wants to present to others The self he would most like to develop into His confrontation with self His acceptance of self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H. S.) Degree of "success" in competitive world Considering himself to be a contributing member of his group	consequences of choices Freedom from pressures of family, school,	H.S.
Work goals Life goals With reasons for choices Development of his own personality Development of his own life style Herocs/anti-heroes Whom do I idolize? And pattern my life after? Immigrants Some contributions from first-generation Americans J.HH.S. His projected image The self he wants to present to others The self he would most like to develop into His confrontation with self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H.S.) Degree of "success" in competitive world Considering himself to be a contributing member of his group		₹ . J. H.
Development of his own life style Heroes/anti-heroes Whom do I idolize? And pattern my life after? Immigrants Some contributions from first-generation Americans The self he wants to present to others The self he would most like to develop into His confrontation with self His acceptance of self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H.S.) Degree of "success" in competitive world Considering himself to be a contributing member of his group	Work goals Life goals	H.S.
Herocs/anti-heroes Whom do I idolize? And pattern my life after? Immigrants Some contributions from first-generation Americans J. HH. S. His projected image The self he wants to present to others The self he would most like to develop into His confrontation with self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i. c., how similar to the norm (H. S.) Degree of "success" in competitive world Considering himself to be a contributing member of his group	Development of his own personality	₩ K-12
Whom do I idolize? And pattern my life after? Immigrants Some contributions from first-generation Americans J. HH. S. His projected image The self he wants to present to others The self he would most like to develop into His confrontation with self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i. c., how similar to the norm (H. S.) Degree of "success" in competitive world Considering himself to be a contributing member of his group	Development of his own life style	H.S.
Some contributions from, first-generation Americans J. HH. S. His projected image The self he wants to present to others The self he would most like to develop into H. S. His confrontation with self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural J. HH. S. greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H. S.) Degree of "success" in competitive world Considering himself to be a contributing member of his group	Whom do I idolize?	<i>*</i>
His confrontation with self His acceptance of self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural J. HH. S. greatness) (K-12) Part of a continuum/memory function Seeing his own personal worth Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H. S.) Degree of "success" in competitive K-12 world Considering himself to be a contributing member of his group	Some contributions from first-generation Americans His projected image The self he wants to present to others	J. HH, S. H. S.
Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H.S.) Degree of "success" in competitive world Considering himself to be a contributing member of his group	His confrontation with self His acceptance of self Security in the idea of roots (family tree, coat-of-arms) Race (as an inheritor of past cultural greatness) (K-12)	J. HH. S.
member of his group -	Realizing what he does well (strengths) How nearly "normal" he is, i.c., how similar to the norm (H.S.) Degree of "success" in competitive	K-12
		*

His evasion of self (withdrawal/denial)	
Refuge in race, nationality, or various social, political, and ideological labels	H.S.
Mastery of skill areas (see Learning Environment	
section)	•
Reading	
Writing	
Spelling as a means of giving a child a	•
opeaning positive or negative solf-image	1-12
Mathematics positive of negative sen-image	
Thinking	•
· · · etc.	1
as examples of reading skills	
Reading for content of henefit to the individual (and	3-12
Reading for enjoyment his self-image)	0 12
<u> </u>	
Math applications:	•
Develop confidence through success in problem-	
solving and in the handling of mathematical	
	K-12
Developing skills in handling mathematical	145 A 1
operations is more important than	•
memorizing facts	•
. Ability to express one's self orally and in writing	
(as it affects self-image)	3-12 .
in.	
Painting, creative writing, poetry, etc. as a means.	
of self-expression	J. HH. S.
Civil rights ,	•
Leaders in the fight for human rights and	-
human dignity	K-12
A continue manage statistic (on it builds on to	نسند . ۱۰
Accepting responsibility (as it builds one's	77 10
self-image)	K-12
Identification with the national spirit of a country	J. HH. S.

PROBLEMS OF SELF-PRESERVATION

Mental illness Feclings of rejection

H.S.

C	Caring for his body	
	Sanitation	
	Cleanliness	-
	Sleep (sleep as a renewer) Posture	
	Exercise	К-12
	Elimination	11 22
	Personal hygiene	
	Toofhbrushing	
	etc.	
	Dieting	•
•	Dieting Health (organic) foods	J. HH. S
C	Caring for himself	-
	Assuming responsibility (K-12)	•
	Means of support Know-how	
	Safety	H. S.
	Independence	23. 5.
	Interdependence	
	etc.	
C	Coping with stress	
•	Coping with change	9-12
	Linds of illnesses	
K	Deficiency	÷,
	Degenerative	•
	Contagious	1
;.	Addictive	n e
•	Drug abuse	H.S.
	Smoking	•
	Drinking	
	etc. **	•
Þ	sychosomatic illnesses	H.S.
D	rugs, alcoholism, and suicide as ultimate failure	
	to accept self	J. нн. S.
N	eed for privacy	•
	Healthy renewal rather than withdrawal	
	Ability to be alone with one's self	H.S.
	Introspection	
	Meditation	•

MAN AND HIS INTIMATES

= Man's first projection outside of himself

Relationship with	Parents	(necessity to rebel, to assert individuality)
•	Siblings	(trial by combat)
:	Peers	(pecking order, friendships, alliances)_
	Spouse	(role of sharing, support; care of children)

HOME

Health in the home	•
Safety at home	1-3
Some famous homes: Mount Vernon Monticello White House	3
Nome management Budget Buying a home	H.S.
Baby and child care	H.S.
Assigning of taskschores	K-3
Opinion-based biases (propaganda) (as learned in the home)	J. HII. S.
Family living How families live Building family cohesiveness	2-3 H.S.
Family members/loved ones Extended families Nuclear families	
Child-rearing procedures and philosophy Relatives Kinship patterns Adoption	H.S. ,

	,
Besides food, shelter, clothing (which family usually provides through work-earning money syndrome), family also provides: Health care Defense/protection Introduction to social order/culture Sense of continuity (security) Customs and norms of the culture into which you were born Introduction to workshop pattern	3-8
Love (most of all!)	•
The need (or lack of) to be part of a family	J. HH. S.
pros and cons	
Man's need for others Man's need for privacy	Ķ-12 J. нн. S.
Assignment and use of nicknames	K=3
Hand-me-down clothes	: K-12
Reward/punishment system	K-12
Food as an emotional substitute	H.S.
"Breaking bread" as fellowship	2-3
Providing well balanced diet Instilling good eating habits Using eating utensils Chopsticks Good table manners	K-12 K-3
Entertaining in the home Parties and banquets	H.S.
Consumer education and budgeting	J. HH. S.
'Changing status of such institutions as marriage and the family in our society	H.S.
Communal living. Communes Kibbutz	H.S
Space requirements per person Cleanliness requirements/housekeeping	K-12
Heredity and health (e.g., sickle cell anemia, tendency to heart disease, diabetes, etc.)	K-12

Inheritance practices H.S. Inherited (hereditary) features and traits J. H. -H. S. Customs, mores, and values (as taught in the home) ·H.S. The home as an environment Architecture of the home Function and functional design of each room Duties and roles of family members Why roles? Traditional "mother" role Traditional "father" role Traditional "grandparent" role Transition of attitudes toward above roles Women's Liberation movement Cooking Cooking utensils: Recipes Oven/baking/broiling J. H. -H. S. Frying Boiling Laundry Making soap Ironing (evolution of modern steam iron) Entertainment within the home . Games Craft projects Television Inviting guests etc.

FRIENDS

`Friendships (uniquely different in U.S. from all other countries)

As distinct from "acquaintances"

Human relations

Group identity

Getting acquainted with neighbors, playmates

Feeling of self-sufficiency in relation to abilities of his peers

Oral reading Writing friendly letters

Romance/dating/courtship
Method of choosing spouse (and.who chooses)
Marriage.contracts
Arranged marriages
Divorce/remarriage

Burial customs/mourning Widows ...

Euthanasia

Nepotism

Alienation

Population

Math applications:

To increase his ability in keeping accounts
To understand the value of money
Check-writing and budgeting in order to help
his family
Importance of earning a living

MAN AND HIS COMMUNITY

ORGANIZATION

People	÷ •	:
Boy-boy	*	•
Girl-girl	• •	•
• Boys-girls	•	
Men-women .		•
Teacher-students ,		
Employer-employee		K-5
Householder-servant	•	
Officer-soldier		
Leader-subordinate		
Peer relations		
etc.	•	
- Self	•	-
Family members	• .	K-5
		•
Roles of people in the community		
Races	•	
Religions		3 .
Nationalities	,	
Infancy -		•
Childhood	<u> </u>	
Adolescence		ŧ
· Adulthood		3
Middle age	•	
Old age	,	
Care for aged as a family re	esponsibility	
In the city; in the suburbs; in the		9
•	-country	3
Places	<i>:</i>	
Introduction to school.		
Getting to know:	• •	•
Teacher	•	
Each other		
School building		
Lunchroom	· · ·	ζ-1
Library		٠.
Nurse's office		
Main office	**	
Custodians' room	n	
Bathroom	•	

ERIC

Schools	
Office buildings	
Restaurants	•
Hotels/motels	
Hospitals .	
Parks	
Theaters	
Stores -	
Grocery	
Department ·	
Drug	•
Dime .	
Clothing	2-3
Shoe	*
Furniture	
Discount S	
Houses	•
Apartments	
Farms	
Industrial buildings	
Commércial facilities	-
Churches	
Museums .	
Public buildings etc.	
eu.	
Spacepsychological effect	H.S
Habitats, adaptation	J.H
Getting to know our neighborhood	
Age range of residents	•
Ethnic composition -	
Residential areas	
Commercial areas	2-3
Public facilities	
Population density -	· ~
Religious makeup	· ·
Economić level	-
Political makeup	
Flux, stasis, or stagnation	, J.H.
etc.	

Processes	• .
Communication Transportation Trade of goods and services	. K-12 2-6 3-12
Distribution of people, places, processes Scattered farm communities Small towns	•
Suburban towns Cities Metropolitan centers Megalopolis	3-5
In other times Around the world	5, 7 6
Man's role in various cultures	· 7
Communal living Monasticism	ζ ^H . S.
Geographic areas of the world: their people and their eustoms Europe British Isles' Scandinavia Western Europe Southern Europe Eastern Europe and Russia Africa	6
North Africa West Africa (including Central Northern region). Central Africa East Africa South Africa	6
Middle East	6 ⁻⁷
Orient and Pacific — — South Asia	•
Southeast Asia	. ` 6
East Asia Pacific Region (Oceania)	.

	The Americas	
	Canada	•
	United States (including Amerindians)	
	Mexico	4-6,
	Central America,	
	Caribbean, Bahamas, and Bermuda	-
•	South America	
	Antaresica	J. H.
		·
	Arctic	J. H.
COOPERA	<u>CION</u>	
- Indiv	idual needs	
-	Food	•
	Physical protection ·	
	Clothing and shelter	2-3
	Helping	
	Working together	,
+, Sàtis:	faction of needs	
DUMB	Families .	
	Caveman	
• •	Early civilizations	7
,	Nomadic peoples	,
		•
	In warm climates	
-	In cold climates	
_	Deserts	
	During natural disasters	7
*	In wartime	•
. *	In isolation (Robinson Crusoe)	
	In outer space	•
Noed:	s of modern communities	- 44
11000	Goods	•
	Food	4
•	Clothing	
	Shelter	
	. Household supplies	
	Machines -	
9	Means of transportation	.3
	Water Y	• '
•	Power	
	·	
•	Medicine Resources	
	Natural, human, institutional	

Services Garbage collection Delivery of food, supplies Building Transportation · Mail delivery Police protection Military protection Storekcepers Teachers Repäirmen Doctors/nurses/dentists/optometrists Salesmen Janitors City planning Real estate sales Government officials Fire protection Public utilities Recreation Welfare Religious organizations Health protection Warehouses Access to goods and services Barter Trade Money/salarics/income/wages Buying and selling (1-3) Inflation/deflation Medium of exchange/monetary system (value attached culturally to rare items; e.g. salt, gold, silver, gems, wampum, cowrie shells, etc.) (7) 6-12, Supply and demand Generally . Production and supply (mass production) Wholesale/retail Competition Bargaining process (haggling over prices/fixed price system) Profits/losses Credit (rating, cards, unions)

Loans/interest

Stock market (bonds, futures, commodities)	•	
Banking		
Savings/investment ,		
Insurance ("No Fault" insurance)	.*	
Taxes	•	6-12,
: Regressive/progressive.	•	Genera
Income	•	Conord
Sales		
Gas/cigarettes/liquor	•	- 3
Property		• •
Contracts	`	. ;
Open markets		
Bazaars ·	γ	H, S,
Auctions		
Guerra National Thursday		
Gross National Product	,	•
Value (and how values change)		
Chain store	•	•
Mail order business		
Checkin account		
Writing a check		
Money order .		H.S.
Stock market	•	11. 0.
Bears and bulls	•	
Dow Jones averages		
Board of Trade	=	
Cost of Living Index	•	
Inflation/deflation	,	
Depression	,	
Bookkeeping/accounting		3
Regulation of access to goods and services		•
Free enterprise system	, kî	* .
Government controls		<i>\$</i>
Socialization		
Communism	•	:
Means of acquiring property	٠.	_
Inheritance		•
Loans		H.S.
Backers		
Stocks		`
Consumer protection	•	
Chamber of Commerce		• •
Junior Chamber of Commerce.		•
Better Business Bureau	,	
Dougtown Utica Marchants Adoccidion	•	

Issues affecting access to goods and services
Effects of war on manufacturing

On economy in general

Different pay scales

Whites/minorities

Men/women

Employment practices

Access to education/training

Unequal taxation (millionaires who don't pay taxes)

Career opportunities in given locale

Job obsolescence

Social status and possession of material goods

Government spending

Public financial supports

Unemployed

Farmers

Businesses

Handicapped/infirm - 3

Aged (respect for, institutions for)

Maintenance function in society (How "developed" a nation is can be told not by what products it manufactures, but, even more, by how it is able to keep its equipment repaired.)

Built-in obsolescence

Depression

Medicine: an in-depth look at a community service

Medical doctors (including various specializations)

·Dentists

Nurses

Nurses aides

Hospitals · ·

Nursing homes

etc.

Socialized medicine

tt C

H.S.

	Eye banks Organ banks Heart transplants Computer diagnosis Cloning	J. HH. S.
	Psychiatry Mental illness Progress in attitudes, diagnosis, and treatment Tranquilizers, etc.	J. HH. S.
	History of medical care . Treatments and cures from the past Surgery (past and present)	J. HH. S.
•	Health insurance Ambulance X-ray Paramedics Field hospitals First aid	J. HH. S.
ď	Medicare Medicaid Project HOPE World Health Organization	J. HH. S.
	Immunization Preventive medicine Sterilization Antiseptic techniques	J. HH. S.
	Medical uses of drugs To combat germs and infection To cure diseases	
	To ease pain As sedatives As stimulants. As tranquilizers	J. HH. S.

Causes of disease
Bacteria
Toxin
Virus
Allergy
Infection
Poison
Radiation

J. H.

Effects of disease
Blindness
Deafness
Fever
Hunchback
Coma
Sickness
Death
Immunity

а. н^{*}.

Types of diseases Infections/contagious diseases Epidemics' · Diseases caused by physical agents (e.g., blisters, fractures) Diseases caused by chemical agents (lead poisoning) ... Diseases caused by diet deficiency (rickets) Diseases caused by the wrong functioning of parts of the body (cancer, gallstones) Occupational diseases (silicosis) Mental and nervous diseases, Children's diseases Diseases of old age (senility) Allergies Diseases affecting respiratory system

Diseases affecting heart, blood, and

Diseases affecting digestive organs

J. H. -H. S.

Diseases of teeth and mouth

circulatory system

Diseases of eye

Treatment of disease Diagnosis Medicines and drugs Surgery Rest J. H. -H. S. Immunization Therapy Psychiatry etc. History of surgery Barber as doctor H.S. Bloodletting/leeches Nonconventional treatment Osteopathy Chiropractic Homeopathic medicine H.S. Acupuncture Psychiatry . Safety To and from school On playground In classroom--with equipment K-3 Policeman Not accepting favors or rides from strangers Kinds of groups Hobby/interest Action Political Right wing Left wing J. H. -H. S. Business Professional Fraternal . Service Religious communities etc.

Parties and social gatherings Introductions Etiquette/good manners Reward/punishment Social manners	2-4
Meetings (parliamentary procedure/ Roberts Rules of Order)	J. H н. S
Conferences	H. S.
Strata	, •
Classeslower/middle/upper Caste system of India • Racism Sexism	J. H.
Women's Liberation	
Owners Managers Professional groups Laborers Migrant farmers Tenant farmers "Blue collar" workers "White collar" workers	J. H.
Groups outside the social structure	J. H.
Social relations Social equality or inequality	H.S.
Food/clothing/shelter as a status symbol	J. H.
Servitude Slavery The mentality of the colonizer and the colonized Racism/prejudice a Nationalities and national loyalties	J. HH. S.
National foods Foods we have received from other countries	J. H.

Ē.

	•	•
•	"Face" and "saving face"	H.S.
	Group loyalty	H.S.
	Pressures to fit the norm	J. HH. S.
	Rituals and ceremonies	H.S.
	Emergence of spirit of nationalism	• J. HH. S.
	Patriotism	· J. H. +H. S.
	Jingoism '	J. HH. S.
Buile	ding groups into societies	
	American heritage	
-	American Indians	
	Indians of the New York area (Iroquois)	`•
	Life in early America	•
	American Indians	
	Pilgrims 💂	
	Colonial life .	- 0
	Pioneers	5, 8,
	Western frontier life	
	The adventure of the frontier	-
	Citizenship	•
	Naturalization	
	Alien	
	Changes in immigration practices	•
	Economies of America	10
•	Melting pot versus a pluralistic society	H: S.
•	Growth of cities	J. H.
•	New York in a megalopolis society	* 8
	History of our community	3
•	Study of regions of the Western Hemisphere	6 ·
٠,	World cultures today	7 · ·
	Anthropology	H.S. *
•	Changing attitudes toward the non-Western	•
•	cultures (used to think Africa was a	
	"country without a past")	H.S.

Preservation of traditions (for each group within the community)	•
Printing/books/libraries/histories/ museums	
Oral histories (African tribes) Customs (= standards of acceptability	7
and recognition) Rituals/ceremonies	
Myths ánd folk heroes Holidays	
National dress	: 3-6
National anthems	0 0
National flags/state seals Patriotism	•
Stereotypes of outsiders	H.S.
Societies in transition	_
Acculturation	
Problems of modernization in an.	• *
"underdeveloped" country	
Lack of stability in such a fast-changing society as ours (Future Shock)	H.S.
Future of such institutions as marriage	•
and the family	
Women's Liberation movement	•
Customs	
Customs of dress	
People dress for the impression	
, their dress will make on others	3,−6
Formal/informal dress	
Women's/men's dress .	
Urban/rural/regional differences	*
Sportswear	
Work clothes	
Uniforms .	·3 - 6
Military Professional/vocational	.3-0
Ritual (wedding, burial, confirmation,	
religious orders and ranks)	,
Outer/under wear	•
Protective clothing (e.g., knight's	
armor, welder's helmet, etc.)	
Babies!/children's/teenagers! clothes	

Styles of clothing	م م	
Fashion/fads	-	_
Native costumes of various		7 17
countries		.J. Н.
. Clothing through the ages		
(throughout history)	٠.,	·
Haute conture		
Fashion design	-	
Fashion illustration	_	H.S.
- Modeling	•	
Related areas:		
Masks		•
Body painting	•	
Mutilation and scarification	-	
(including teeth ornamentation,		<u>.</u>
filing, blackening, etc.)		J. H.
Cosmetics		0,11,
Wigs		
Beards/hair styles		
Jewelry		
Perfume		•

SOCIALIZATION

The individual/self image/Who am i?
Physical appearance
Culture
Religion
Interests
Experiences
Skills
Talents
Attitudes
Knowledge
Personality
Likes/tastes

Needs

K-12



9
S,
•
s.
,
•
_
٠

When societies do not accommodate everyone

Some contemporary social problems and issues

Freedom and its restriction

Violence and crime

Communication and its breakdown

Poverty/affluence

Drugs and alcoholism

Revolution and civil disorder

Extremists--right and left

Generation gap

Crime and rehabilitation

Prison reform

Recidivism

Youth culture

Groupness and belonging--alienation

Authority

Geriatrics--care of the aged

Unemployment

Discrimination -- on the basis of race,

ethnic group, sex, class, age, etc.

Decay of inner cities (ghettos)

Health and medical care

Hunger

Malnutrition

Socialized medicine

· Organ transplants

Euthanasia °

Medical education

Paramedics -

American Medical Association

Handicapped

Mentally ill

Rural problems

Welfare

· Housing and slums

Suburbia

Juvenile delinquency

Leisure time

Work as a fulfilling activity

Population problems

Ecology

Tradition and change (status of

traditional institutions: 'marriage and

family, church, school, etc.)

Suicide .

44

43

ERIC

H.S.

Other social systems Hawaii . . England Soviet Union 6-8 China India Primitive societies COMMUNICATION (IN FORMATION AND ACCULTURATION) Language -Language families: Indo-European Greek Romance Celtic Slavic Indo-Iranian Albanian Armenian Sino-Tibetan J. H. Mon-Khmer Japanese and Korean (relationship still notdetermined) Ura -Altaic Dra idian Malayo-Polynesian Black African (several) Semitic-Hamitic-Kushitic American Indian (several) Evolution of English alphabet Latin and Greek roots of English words H.S. Heavy borrowing from English by many languages Development of Esperanto and Esperazo (international languages) H.S. International symbols for travelers Road signs

Airports/restaurants/hotels

Foreign languages	
Total approximate number of languages in the world	
"Families" of languages	
Language as evidence of origin of any people	
"Dead" languages H.S.	
Deciphering languages (e.g., Rosetta stone,	
"Linear B")	
Decoding code messages	
Translation	
Problems of translation	
Braille	
Sign language of the deaf	
Dialect	
Slang J. H.	
Jargon (specialized professional or technical terms)	
Figures of speech	
Metaphor	
Simile	
Pun J. H.	
Irony	
Sarcasm	
etc.	
Formal/informal	
Gossip	
Rumor	
Inspirational J. HH.	Ä.
Mob	, –,
Information/instruction	
Lecture	
Political indoctrination/propaganda .	'
Verbal means of communication ("media")	
Door-to-door/person-to-person	
Speaker's platform	
Letter/postal system	
Books	
Newspapers/magazines J. H.	• •
Telephone	
Telegraph	
Radio	
Television/closed-circuit TV	
etc.	
	•
Levels of communication H.S.	

Using Language

Importance of using words well For better understanding among people. To break down barriers To transact business In getting a job Personal growth Expressing your feelings as fully as possible:	H.S.
Story writing Letter writing Expository writing	3–12
Public speaking Story telling	J. HH. S. K-3
Corrective speech Speech therapy Stuttering Lisping	K-12
Speaking as a vocation Radio/TV broadcaster Interviewing Counseling Public relations/advertising Reading as a vocation	н. s.
Literary critic Proofreading	·
'Librarian (
Reading music	3-12
Roman numerals Arabic numerals	K-4
Development of speech . Anatomy of the vocal chords	J. H.
Direct/indirect communication Communication through an intermediary Representative government as a case in point	н . 's.

Nonverbal Communication

' Symbols		K-3
Smoke signals Tom-toms		К-3
Nonverbal communication (gestures and signs)/ body language	. •	H.S.
Models Still pictures Motion pictures		
Drawings Schematics and diagrams, maps, and graphs		1-12
Symbols (pictographs) Abstract symbols (words and equations)	<i>:</i>	
Manipulative Use of Language	· ,	,
Public opinión and public opinion,polls	. 🕴	H.S.
Editorializing	•	
Commentary News media as molder of public opinion Journalism: to inform?/or to/mold?	? 	H.S.
Debate		H.S.
Town meeting		H.S.
Advertising/salespitch/truth in advertising Personal influence Propaganda Bribery and graft as a means of receiving favor Persuasion techniques Brainwashing	· .	H.S.
Detesting propaganda		H.S.

REGULATION

		•	
<u>aw</u>	.,	•	
•	•		
. •	Rules and laws in school	۵	K-2
•	Rules and laws in the com	munity .	
-	Problem of dogs in l	•	3 .
	Kinds of law:	į	,
	Civil law		
•	Criminal law		γ
	Constitutional law	•	
	International law		
	Governmental law	•	H.S.
	Parliamentary law		11.0.,
	Military law	•	
	Maritime law	•	
	Common law	,	•
	· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		
	Law codes		•
*	· Hammurabi's code		
	Justinian code	•	
	Ten commandments	•	H.S.
•	Napoleonic code	•	•
	etc.		•
	Felonies and misdemeanor	s	
	Abandonment	Homicide ·	,
	Accessory	Kidnapping/ransom	
	Arson	Largeny	
	Assault and battery	Libel	. •
	Barratry	Lynching	
•	Bigamy	Manslaughter	
	Blackmail	Mayhem	
	Breach of the peace	Murder√assassination	
•	Bribery	Perjury `	
	Burglary	Poison	J. HH. S.
	Collusion	Polygamy.	
	Conspiracy.	Regicide	•
	Contempt	Riot	·
,	Counterfeiting	Ŕobbery	
•	Embezzlement	Slander	•
	Euthanisia	Suicide .	
	Forgery	Treason	
-	Fraud	Trespass	•

Vagrancy

	Laws International laws International affairs Diplomacy Protocol War/peace/cold war/power alliances Resolution of arguments and misunderstandings United Nations		H. S.
	Urban renewal codes Building codes and inspections Licensing of contractors Unions (strikes)	ر سر	∕H.S.
	Zoning restrictions		H.S.
	Contracts Social Legal Business Marital	•	H.S.
,	Marshall law		H.S.
Civil	Order		
	Police -Laws -Lawyers -Judges		3-5
	Court system Trial procedure		8, 10
•	Treatment of offenders Prisons Prison reform movement Is the aim to remove from society, to punish, or to rehabilitate?		8, 10
	Problem of police corruption		H.S.

State court system Appellate Court	•
Court of Claims Court of Domestic Relations Juvenile Court Probate Court	8-10
Witness Defendant	8-10
Federal court system Supreme Court Court of Appeals District Court Court of Claims	8-10
Jury duty (and citizen's responsibility). Trial by jury "Act of God"	8 , . 10
Justice of the Peace Notary Public	8, 10
County officials Assessor Auditor	
Coroner Autopsy Inquest District Attorney	8, 10
City government officials Mayor Auditor Assessor	•
Alderman City planner Housing Authority Police	3, 8, 1
Public health Vital statistics etc. Problem of nepotism	10
•	. / :

5

Administration of Government

Reasons for government Political structure (government) City County (or province) Parish State → Prefecture * 8, 10 Region Zone County Territory etc. etc. United Nations-idea of world government J.H. Kinds of government Anarchy Monarchy Aristocracy Theocracy Democracy H.S. Socialism Communism Dictatorship Facism, Military coup One man-one vote 5, 8, 10 Representative democracy Political parties Elections. Political conventions Local/national politics Major parties 8, 10 Republican's Democrats · Splinter groups Third party ... Dark horse Executive branch. Judicial branch' Legislative branch Senators

5

Congressmen (representatives)

Congress Parliament Cabinet	8, 10
Government systems in other parts of the world	H.S.
Governor State officials	3, 8
Mayor City Manager City Council	3, 8
Public welfare Public Health Department Restaurant standards Crity/county Health Boards Hospital boards Weter supply control	10
Loyalty Trust Credibility Responsiveness	н.S.
Acceptance of responsibility Local, state, and national interrelationships Federal versus state's rights The Individual and the Political System	H.S. 8, 10
Our rights as citizens The Four Freedoms Academic freedom Bill of Rights	J. H.
Civil rights Declaration of Independence Magna Charta Symbols of freedom Statue of Liberty Liberty Bell	. 3-5
Flag Civil defease	•

	•
Citizenship	· ,
Our responsibilities to our:	•
Country	
Family	•
Church	J. H.
·	. ••••
School	, .
Clubs and organizations	`\
etc.	•
. Civic responsibility	
	J. H
Rules governing respect for the flag	• •
	-
Changing the Government	•
	•
Constitutional amendments .	. H.S.
Making laws	
•	•
Revolutions	•
French	•
United States	J. H.
Industrial	
. etc.	
Characteristics of revolutions	H.S.
•	-
Governments throughout History	
Governments unroughout misory	•
an it at an after a mould	·
City-states of ancient world	`H.S.
Medieval feudal system	¢
etc.	, , ,
HUMA NIZATION	1
	•
Friendship	•
Sharing	K-12
Cooperating	K-12
Making others feel good	•
Making others reer good	•
Sense of community spirit	3-12
	· • • • • • • • • • • • • • • • • • • •
Concern for those we do not personally know	^ `
Sympathy	
Empathy 7	3-12
Concern for the handicapped/unfortunate/poor/	
orphaned/strangers, etc.	
	•



Hunger/starvation -	•	
Of the individual		
Society's responsibility Attitudes towards those on relief Agencies dealing with Worldwide starvation	-	H. S.
Social work		TT C
Foreign aid		H. S.
Attitudes toward homicide/genocide	-	H.S.
Education and utilization of the bandicanned	,	מ ע

» ,

Skills

Math application:	4
cometric structure of the community	∕J. HH. S.
Map reading and measurement of community	3−8
Wholesaling and retailing	1-5
Following the stock market reports for a	•
particular stock	H.S.
Letter writing	
Report writing	•
Verbal communication skills:	•
Verbal reports	•
Choral reading	:
Debate	
Demonstrations	
Panel discussions	
Interviews -	•
Introductions	3-12
Telephone etiquette	•
Group work skills	
Determining tasks	٠
Assigning-duties	·
Note taking	
etc.	
Holding group discussions	
Arriving at consensus	•
Ability to learn and follow rules	

MAN IN HIS PHYSICAL ENVIRONMENT

GENERAL CONSIDERATIONS

Maps

Profile

Topographical

Relief

Contour

Map skills

Demographic (population concentrations

Mineral surveys (seismographic charts)

Medical statistics (infant mortality, average life span, etc.)

Neighborhood map

Globe as earth model

Problem of environment versus heredity

MAN'S EXPANDING HORIZONS

Kindergarten:

Self and manipulation of the immediate

environment

Names for things in environment

Building blocks

Dress-up/role playing

People in my environment

The Home as an Introduction to his Physical Environment.

Aesthetic aspects .

Pragmatic, utilitarian features

Unpleasant aspects

1_2



A walita at was disharet amofa animal amolita ata	•
Architecture without professional architects:	
, Cayes (Palaeolithic caveman)	
Tents North Africa North	-
Subterranean (e.g., North Africa: Matmata,	
Gharian, Ghadames)	
Eskimo igloo	
Mongolian yurt	1-2
Amerindian solutions (e.g., Tepee, Wigwam	
Longhouse, Hogan, Pueblo-"apartment"	•
Taos)	•
Log cabin	
- Houseboats (Hong Kong's Aberdeen or Sausalito)	
Lake dwellings	
etc.	
Architects and their work	- 0
Contractors	1-2
4 Puilding materials	
Building materials Wood	_
Stone	•
Brick	
Glass	
Steel	
Concrete and concrete block	. 1 0
Plaster'	1-2
Plastic and foam	
Grass '.'.	ν.
Mud	·
Animal skins	
Sticks	
etc.	
Community as an Introduction to his Physical Environment	•
· · · · · · · · · · · · · · · · · · ·	
Natural Communities	

The

Pleasing elements
Unpleasant aspects
Features that support survival
Destructive features

Architectural styles of historic periods: Neolithic Mesopotamian Egyptian Greek Roman Early Christian Byzantine Early Middle Ages Romanesque Gothic Renaissance Baroque Rococo 19th century styles 20th century styles/contemporary architecture Chinese Japanese Indian Southeast Asian . Islamic Pre-Columbian African Oceanic Early American The shaped environment Public parks Disneyland Reston/Columbia-type planned communities Monasteries Prisons Homes for the aged/nursing homes Condominiums Trailer parks Shopping centers College campuses

Further Expansion of Man's Physical Environment

To ever-larger units:

Neighborhood-community

City

State

Region

Country (nationalism)

Hemisphere

World

Universe

Concept of equality and brotherhood of all men

SPATIAL-TEMPORAL ORIENTATION

Sense of Space

Sense of geography (3) Personal space orientation Sense of direction: north/east/south/west Why have most people in history oriented themselves to four directions? Right-feft In-out Through ' Up-down Away Far-near Measuring our world and its objects: . Length' Area Cubic measurement Weight Commercial products (e.g., wood = cord; paper = ream, quire; etc.) Temperature Air Electricity Time Months Seconds . Minutes Years Decades Hours Centuries Days

Millennia

Calendar

Weeks



						• \	
Quantitative r	_					•	
Large-s						•	
Big-littl		٠			*		
Half-wh	ole			•	•		K
Part							
Compar	isons '			, .	•		
How far is inf	inity?	•			•,		H.S.
Sense of Time					•		•
•				4			•
Time sense				-			K-2 -
Measuring tim	ne (clocks/wa	atches	5)				K-2
Time zones							4
Psychological	time			•			4-6
. Sense of histor	ry						4
Past/present/	future orient	tation	(today	/tomo	rrow/		Ē.
yesterday/no	ow/then/late:	r)		•			K
Calendar (Gre	gorian/Julia	n/BC	/AD)	•			. 5
Sequential acti							4
Sense of chron	ology and co	ntem	porane	ous ev	ents	٠	4
							•
NATURAL PHENOM	ENA		•	•		<i>,</i> ···	
	-			t.	•		
The Contour of the U	<u>Jniverse</u>		•				
Heavenly bodie	PS						
Solar sy		•					
Su Su	•						•
	oon			•			
	anets			•			
	Earth -		٠.				
	Jupiter		_				
	Mars		ŕ			•	2-3
~	Mercury	" .		•	•	o	
	· Neptune			•			
•	Pluto		. ,				•*.
•	Saturn.				-		
	Uranus					• .	
`	Venus		•	•	•		
	A CHITO						

	Asteroids	•			
į	Meteors			•	
•	Comets '				
	Stars	-			5-8
	Constellations				9-0
•	Milky Way		•	•	`
	Northern Lights	-		سي	•
	Galaxies			•	,
•	Guinanco	•			
Land	masses			4	
	Age of the earth			• `	•
	Weight of the earth				
_	Internal composition of	he earth		•	
-	Distance of earth from				4-6
	Sun ·	·		•	
	Moon			-	
	Other planets .			•	•
	-				
	Movements of the earth				
	Eclipse	4			
	Pole	•			
•	Rotation on axis				2-4
` <	Around sun	<i>i</i>	•		
•	Within galaxy	/		٠- و	
	North Pole		•	- ,	
	South Pole	1			
	73	,		•	
	The earth's zones:	<i>;</i>			•
	Arctic circle	/			
	Antarctic circle	/		-	
	Equator	, 1			
	Tropic of Cancer	7			_
9.	Tropic of Capricon	\mathbf{cn}_{f}	•	1,	5
	Longitude ·	,			
	Latitude	•		•	•
	Meridian			•	-
	' International date	line			•
	antin ut-			•	
	Continents				
	North America	•			
	South America		A Sec.		
	Europe				
	Asia			•1	. 5
•	Africa				
	Antarctica				
	Australia				



Hemisphore (Eastern/Western) Continent Island Peninsula Isthmus etc. Jungle Desert Rain forest Plains Grasslands Savannah Highlands Plateau Mountains Tundra Swamp Tidelands Coastal region etc. Kinds of soil Clay Humus Loam . Loess Sand . Silt Earthquake Fault San Andreas Fault Seismograph Landslide/avalanche Affecting changes in the earth's surface Wind , Water Weather

6

6

3

Volcano Earthquake



Water Masses · Ocean Sea Lake · River Bays/gulfs/inlets/lagoons Sound Straits/channels Cape Inland waterway Canal Waterfall Tides/tidelands Currents Glaciers Icebergs Geyser Oceanography Weather-climate The four seasons Climate zones Climate cycles Melting of the polar ice cap Temperature Centigrade/Fahrenheit Weather/meteorology Weather forecasting · Cloud formations Rain. Snow Sleet Hail Fog Humidity . Dew Frost Rainbow

3-6



Weathervane Barometer Rain gauge Thermometer Hurricane Typhoon Tornado Monsoon Whirlwind

Natural Resources

Lumber Oil/petroleum Quarried stone Natural gas Rubber	. ,3;
Chemicals Chemical elements (105) Periodic table of the elements	н. s
Minerals and rocks	3-5
-Gemstones	3-5
Metals Soil Water	4-6 K-2
Air	, ,
Conservation of natural resources	 .K-2
Technology Industrial Revolution	-K-6
Mining and harvesting the resources (e.g., lumbering and drilling for oil)	3, 5
Technological level of inhabitants determines which natural resources and elements are put to what use	* - 5
Problem: The U.S., with 6 percent of the world's population, uses nearly 60 percent of the world's resources.	·

Natural Lans/Physics (Basic preparation begins in kindergarten)

Matter Energy

Motion and force

Mechanics

Heat

Light

Sound

Electricity

Electronics

Magnetism

Magnetic field

Radiation

. Atomic physics

Properties of matter

Density

Ductility

Elasticity '

Gravity Hardness

Inertia

Malleability

Mass

Porosity

Spring

Tenacity

Viscosity

Weight

Man's Biological Neighbors

General

mbiosis) of plants Interdepen and and

H.S.

65



Conditions of life	
Air	
Water	•
Heat 📜	•
Light .	
Sun :	•
Nutrition	3-7
Adaptation · · · · · · · · · · · · · · · · · · ·	
Aselimatization	
Growth/maturation	
Reproduction	
Death	
Inorganic/organic .	3-7
Evolution	
Evidences of changes in living things	
Theoriés of evolution	Ј . Н
Darwin	
Fossils	
Animals	
Animal kingdom (biological classification	•
system):	
Jellyfish	
Earthworm	•
Starfish	
Snail	• 1
Molluscs (clam, mussel, scallop)	
Octopus	•
Crustaceans (shrimp, lobster)	.H.S.
Arachnoids (spider)	.11, 0,
Insects	
Fish	
Amphibians (salamander, frog)	•
- Reptiles (alligator, crocodile, turtle,	• .
snake)	
Birds	•
Mammals	

Useful animals		
Beasts of burden		
Animals that fight pests (birds/some	,	-
insects/other animals)		
. Animals helpful to plants (pollination/		
seed carrying)		
Animals useful for their products		
(clothing/leather/fur/silk)		2-
As food	<i>(</i>	
Industrial products (wax/bristles/		
feathers/glue/ivory/oil/perfumes)	•	•
Other uses (St. Bernard/police dog/gui	nea	
pig/seeing eye dog/homing pigeon)	,	
·	<i>i</i>	
Animals that live on both land and water		•
Alligator Crocodile		-
•	•	
Beaver		
Frog/toad	•	
Seal /	٠,	4-6
Snail	,	
Hippopotamus		
Turtle		
Walrus Salamander	•	
Salamanuer		
How animals move about	. •	•
Legs		· • '
Fins and flappers .	•	
Crawl (legless: snakes, worms)	• .	4-6
Glide (flying squirrel)		
Fly (birds, bats)		
How animals protect themselves		
Speed		
Thick hide/armor		
Horns		•
Protective coloration		•
Claws	•	4-6
Climbing		4-0
Teeth		•
Chemicals (skunk/tarantula)	•	
Playing dead or injured (beetle/turtledov	c)-	
	-,	



Taxidermy	. 4-	·G
Animals as symbols	•	
Donkey = Democra	ats .	
Elephant = Republ		
Eagle = USA		_
Dove = peace	5 -	b
etc.,	•	•
Plants	•	
A *		
Plant kingdom (biologica system)	1 classification	
Thallophytes	• •	
. Algae	•	
Fungi		
Bryophytes		
Liverworts	•	
Mosses	•	
Pteridophytes (ferr	35)	
Spermatophytes	H.S	3.
	s (evergreens)	
Angiosperms	(flowing plants)	
. Motoco	tyledons (grasses,	
lillies	, etc.)	
Dicotyle	edons (deciduous trees,	
vegeta	bles, fruits, cacti,	
etc.)	- Cacti,	
Weeds	•	
From tree to lumber	5-6	
•	3-0	
Luther Burbank	•	-
George Washington Carve	r . 4	
Gregor Mendel	T.	-

TAMING THE ENVIRONMENT

General

Domestication of animals
Controlling fire
Herding flocks
Development of agriculture
Building shelters
Tanning leather/hides for clothing and tents
Using fur for clothing and blankets
Weaving (loom)
Pottery (potter's wheel)

Irrigation
Hurricane warning systems
Seeding of clouds
Rain dance
Offering sacrifices

Weather forecasting Weather control

Control of environment temperature allows man to keep his body temperature within normal range without undo loss of body energy; therefore, more productive work can be achieved, and at greater comfort

(U.S. is only country that tries to keep people at 72°F winter and summer.)

Different styles of architecture to cope with different Climates
Transportation systems
Availability of land

Radar
Radio
Telescopes
Microscopes
Magnifying glass
Laser/maser_etc.

etc.

•

4-6

J. H.

Primal Industries

	·	•
Ag	griculture/farming •	
,	Gardening	~
	Vegetables	
	Fruits	•
, .	Nuts	
•	• Raw foods	
	Cooked foods	,
	. Home gardening	K- 3
	Grains	12.0
	Corn (maize)	
	Wheat (flour, bread)	\
. • •	Oats	
	Rice	•
	etc.	
•	Dianting (souds/some/hourse)	
	Planting (seeds/care/harvesting)	K-3/
	Livestock	-
	Domestication of animals	
	/ Meat/poultry //	2-3
	Dairy products	
	Annual cycle	
1		4-6
- 1	Effect of climate/geography/soil, etc. on	
. (choices of crops raised in an area	5-6
•	Irrigation -	
	Contour farming/strip planting	
	Crop rotation	•
	New "miracle" grains	
	Chemical fertilizers (before 1920, all	
	Americans used "night soil" as fertilizer)	-
	Deliberate hybridization	5-6
	Selective breeding	•
	Herding/grazing (shepherds/cowboys)	•
•	Mechanized farming (e.g., transition from	•
^ .	sickle-sythe/McCormick's reaper/	
	threshing machine/combine)	•
	•	•,
•	Land reform (6-7)	
	Collective farming	
1	Migrant laborers Sharé cropper	10-11
. [Tenant farmer	
1	Tenant larmer &	

Other kinds of agriculture Beekeeping Dairy farming Vegetable gardening/truck farming Fruit gardening Hydroponics, Nursery Ranch Vineyards Farm Bureau/Grange How science helps agriculture (Agricultural Experiment Stations, etc.) 8, 11; How the government helps agriculture (Department of Agriculture/County Extension Agent/subsidies, etc.) Hunting and trapping Boomering Bow and arrow Élowgun Guns--history and design of firearms Traps/snares Hides/furs (fur traders) . Hunting laws/hunting licenses/game limits 7, Restrictions on ownership of guns Fishing . As an industry As a sport (including deep sea fishing) · As a means of livelihood Food from the sea/farming the sea *Seaweed Lines and hooks Nets Bait

Tools

Tools as a means of manipulating the environment Man the toolmaker Advantage of opposing thumb Tools K-12 · Machines Simple K-12 Complex Sources of Energy Conversion of natural resources into energy Fossil fuels Water/hydroelectric power Dams Atomic energy Sunlight H.S. Tides Wind Generators (gasonne, Steam engine etci. Man-Made (Processed) Products (Changed significantly in structure). Glass Paper Plastics (synthetic materials) Transportation (of People and Materials) Invention of the wheel Motivations for travel Extensiveness of world travel as far back as the Neolithic period

```
By foot
      As a means of travel
      Hiking
      Inca runners
Sedan chair/rickshaw
By animal, e.g.,
      Horse (horseback/saddle/buggy, chariot/wagon/
       pony express/stagecoach/covered wagon)
      Oxen
      Dogsled
      Camel (caravan)
      Elephant
      Llama
      etc.
Swimming
Boats/ships (barges/tugs/rafts/freighters/passenger
 ships/canoes/rowboats/sailboats/motorboats/
 outrigger/hydrofoil/submarine)
Bicycles/motorcycles
Automobiles
      Private cars
           Defensive driving
     'Taxi
     Bus
      Truck (truck routes/weight restrictions)
     Tractor
Trains/streetcars/subways/monorail (AMTRAK)
Airplanes/helicopters/gliders
Balloons/dirigibles
Rockets/space travel
Computing miles, per gallon -
     Cost of maintenance, fuel, tolls, etc. of
       a trip
     Millions of passenger miles by method of travel
     Miles of highway
     Miles of railway track
     Number of airports
     Flights per day/year
     Percentage of people who fly
           Who fly once a year
           Who fly twice a year
           etc.
```

	Average life of vehicles Average number of miles driven per year Cost Cost per mile etc.	5-7
	Future travel possibilities Vacuum tube trains	•
į	SST Computer-controlled traffic etc.	J. H.
	Truck driver	• ,
	Bus driver . Filling station attendant	
	Garage mechanic Pilot Stewardess	3-6
	Ground crew etc.	
	Different kinds of engines Combustion engine Wankel	
	Electric Gas turbine Steam Turbo-prop etc.	H.S.
	Tickets One-way Round trip Reduced fare	H.S.
	Reservations "Standby"	,
	Air streams Flight plans	3-5

A to the second second

Highways Rivers Bridges Drawbridges Suspension bridges Rope bridges etc.	3-5
Canals Tunnels	2
Seaports/harbors Airports Train stations Bus depots	3-5
Airmail	₩
Air freight Railway express	3-5
Burden carrying Weight moving (bulldozers/cranes) Warehousing and storage Longshoremen Ladders	3- 5
Stairs Elevators Escalators	3-5
Lighthouse Buoy	3-5
Wheelchair Crutches	3-5
Wheelbarrow .	3-5
Luggage	. 3-5
Parachute	3-5
Skyjacking	. 3-5

Environmental barriers to travel	* . `
Ocean Mountains	
Desert Berlin Wall	5- 6
etc.	
Prehistoric trade routes (e.g., amber route) Age of Exploration routes	7 5
Travel	
Travel agencies	•
Group tours versus individual travel	
Passports/visas	H.S.
Customs/customs inspection International health requirements	
Present-day trade routes	
	6
Time zones and man's physical clock	5-6
Use of atlas and road map	
Latitude Longitude	3-6
★	
Famous travelers	•
Marco Polo Wright brothers	
Admiral Perry	4
etc.	•
FAA as a regulating force	
Problem of public transportation systems	5-6
• ,	
Mail/postal system	5-6
Transportation versus communication	J. H.
Community's dependence upon transportation	_
ndustry's dependence upon transportation	5
nfluence of the automobile on changes in our landscape Role of the railroad in the development of America	3. ·
Forbidding cars in certain areas of cities	3-6
Frowth and decline of different systems over time	5 0 •
(e.g., railways)	,



	(1) Cars-highways-personal	escape of young fron	9-1
		family	•
•	(2) Trains-train stations-citi	control les-factories	
Movi	ing (world becomes more mobil		5+6
	igration gration		4-6
Space	e travel Artificial satellites Way-stations in space Problems of space flight Spacecraft First trip to the moon Reaching the planets and stars	5	3-6
		·	,
	ection from the elements		· K-3
Volca Ea rt l	ns/tornadoes/hurricanes, etc. noes nquakes		
Flood Fire Glaci Icebe	ers ,		3-5
Build Fire Dams	/ (
Fire Fores	towers st Rangers quake zones		3-5

Non-natural (man-made) disasters

·War

Air pollution
Water pollution
Strip mining
Deforestation
Erosion caused by improper land use etc.

Emergency procedures .

Martial law

Disaster relief (Red Cross)

Problems society must deal with after a disaster

SURVIVAL OF THE UNIVERSE: ECOLOGY

The web of life (interdependence/balance)

Destruction of our natural environment

Preservation of our natural environment (Is it too late?)

Depletion of resources

Exhaustion of known reserves of nonrenewable natural resources (e.g., silver: 13 years; gold: 9 years; copper: 21 years; tin: 15 years--source, The Limits to Growth, pp. 56-59)

Extinction of animals, birds (greatly speeded up in our time)

Problem of pesticides

Land use and revitalization

New."miracle" grains

Clean water supply

Clean air, supply

Noise pollution

Fuel shortage

Shortage of electric power in large cities

Industrial pollution:

Overpopulation

Recycling of materials (nonbiodegradable materials/

recycling paper, bottles, cans)

Recycling of energy.

Mining/strip mining

Deforestation

Wildlife conservation

eic.

K-12--Emphasis 3, 5, 8 Gypsy moth destruction Dutch elm disease

Forest Ranger's -

Examples of man affecting his environment Examples of environment affecting man (Grapes of Wrath)

K-12-- Emphasis 3, 5, 8

PHILOSOPHICAL CONCEPTS OF THE UNIVERSE

Studies of creation ·

Studies leading to the concept of unity, the oneness of all creation

Man seen as separate from other creatures or as an integral part?

Nature as a source of survival

Nature as a destructive force

Nature as an incentive to man's explorative and creative activity

Dangers that threaten the physical environment and man's survival

J.H.-H.S.

MAN AT WORK

THE BUSINESS WORLD

.Ŧ	ob	s`
v	\sim	J

	•
()	
At home	K-1
•	K-1
.In school	2
In community	3 ′
Work your parents do	K-3
Work as a means of providing sustinance of life, creature comforts, and personal satisfaction Tied in with economic system/monetary system	
Thus work, by giving Man the medium of exchange, provides him with the basic	5.0
necessities of life:	5-6
Food	•
Shelter.	
, Clothing	,
· Leisure time activities	
Work (Physics definition)	H.S.
Applying for a job	
By letter .	.,
In person	H.S.
Interviewing for a job	• •
Bart-time employment	
Business structure	
Organizational chart	
Job description	п.ю.
Mathematics	
Adding/subtracting/multiplying/dividing/	
. fractions/percentages	• _
Multiplication tables	K-6
Abacus	^ ,•
Adding machine	• • •
	•

85

Use	of arithmetic in making a living	
•	Bookkeeping	
-	Accounting	
• •	Making change	
	Banks/banking .	
:	Charge accounts, installment buying	
	Insurance rates	
•	Interest rates	(
	Buying on sale or at discount	_
••	Budgeting	н.s.
	Telling time (1-3)	
	Weights and measures	•
•	Figuring distances on maps (5-6)	•
•	Poll and public opinion taking	_
	Statistics for projection	
•	Testing	
•	Vital statistics	
	•	
• • •	etc.	
Mat	h application:	•
•	Various occupations employing a	•
	mathematical background:	
•	. Architect/draftsman/carpenter/	•
•	cook/waitress	
,	Computers and how they work for man	TT C
•	Business work	н. S.
	Inventory	
-	Stocks and bonds	
	Insurance	
•	Machine use	
•	machine use	
Technolog	gy (5-6)	
Automatio	_	•
Inventions	s (major inventions) (3-6)	• ′
Factories		
Industrial	Revolution (8, 10, 11)	
Production	n line	
Standardia	zed parts	8-12
Division o		•
Piece wor	·k\	
Factory w		
Managers		
- Wages and		
Labor rela		
IMOOI ICE		

Labor law Labor unions Strikes Wage demands Improvement of working conditions Warehouses Expense accounts Quality control Primary industry Secondary industry Service industry Extractive industry Monopoly Competition Bill of Sale Bill of Lading 11-12 Receipt Trading stamps Unemployment rate Writing a business letter 3∸6 Typing H.S. Biographies of leaders in industry H.S. Professional jargon (specialized scientific, technical vocabularies) H. S: Retirement plan Fringe benefits H.S. Social security Manual skills/manual dexterity Apprenticing Math to be used for jobs Interviewing

H.S.

Planning skills

Introductions (3-4)

Problem-solving (K-12)

Group work skills (K-12)

Major industries: Agriculture Architecture Building construction Communication Distribution of goods and services Engineering Entertainment Fisheries Food and food preservation Forest products Fur industry Iron and steel Manufacturing and processing Metallurgy/metal processing Mining Petroleum Publishing Quarrying Service industries Storage Transportation Simple machines Wheel 4-6 Levers . Man as a toolmaker

Changes in economic life

Agricultural-handicraft society/shifts to urbanfactory-manufacturing society

The "robber barons" in America's development

8, 11

Vocations/Professions

Policeman	Merchant	,	ě	,	•
Fireman ·	· Lawyer			ſ	
Mailman	Artist	4		7	
Doctor	Musician			-	H.S.
Nurse '	Author :				In-depth
Teacher	etc.	;			
Librarian			•		



Vocations in: The arts Business Communications Education Engineering Government Health/medicine Industry Labor Law Mathematics Religion Sciences Services

Transportation

-H.S.

Vocational Training

H.S.

Vocational Counseling

H. S.

Occupational Outlook Handbook (Bureau of Labor Statistics, U.S. Department of Labor, 1970-1971)

Vocations and professions available
Professional and related occupations
Managerial occupations
Clerical and related occupations
Sales occupations
Service occupations
Skilled and other manual occupations
Major industries and their occupations

Agriculture

Mining

Construction

Manufacturing

Transportation, communication, and public utilities

Wholesale and retail trade

Finance, insurance, and real estate

Service and miscellaneous

Government

Marine eco-systems management

a

Other Vocations

```
Vocations that relate to other strands of Man and
 his world model
     Community services
           Fireman
           Police
           Mailman
           Store keeper.
           Repairman
           Dry cleaner
           Health services
           Social workers
           Teachers
           Milkman.
           Mayor .
      Physical environment
           Scientist-as recorder of natural phenomena
            Farmer
           Ecologist
           Veterinarian
      Creator/explorer
           Scientist -- as discoverer (H.S. -- specific
             sciences)
           Artists (in all the arts)
           Inventor
           Astronaut
           Explorers (Are there still any around?)
      Conflict
            Warrior
                 Soldier
                 Sailor
                 etc.
            Lawyer
           Judge
          Diplomats
      God(s)
            Priest/minister/rabbi
            Nun/monk
            Missionary
```

Cho	osing a vocation		
	Your qualifications		
	Your abilities	•	
•	Your interests.		
	Career opportunities	7	
	Jobs with a future		'н.
	· Chances for advancement		71.
	 Probable salary expectations 	••	
	Where to find information about jobs		an.
• -	Exploratory job experiences		
	Professional organizations		
Tra	ning for a vocation	_ ;	. •
•	Professional schools	•	-
	Adult education.		•
	On-the-job training .		H.S
	Apprenticeship	,	
WORK PR	OVIDES FOOD		٠.
Phys	ical need for food	•	
	Nutrition and physical development		
	Nutrition and mental activity	4	
Psyc	hological need for food	•	. j. H.
	Desire for certain foods	.	· ·
	Different tastes of foods (sweet, sour, spicy,	,	•
	bland, etc.) (K-3)	. •	•
Nutri	tion	_	
	Food value .	_	-
	Vitamins .		
•	Minerals		
	Calories .		J. H.
•	Proteins, fats, carbohydrates	•	-
	etc.	,	
	Good eating habits	•	1-3
•	Body structure as influenced by nutrition		J. H.
	Diseases caused by poor nutrition		J. H.
	Careers in nutrition		H. S.
			are D.

Water as food Drinks/beverages Milk J. H. Juices Alcoholic beverages Farming (see Man in His Physical Environment) Farming as a means of survival Small heterogeneous farms Specialized farms 12 1 "Agribusiness" Farm machinery business Produce processors Food industry Granaries/storehouses Milling/refining Parkaging Preserving processes (drying/bottling/canning/ refrigeration/freezing) The process of decay (and its purpose) Preservatives and additives in food Meat packing industry Marketing foodstuffs (farm-to-market process) Wholesalers Retail grocers Supermarkets Careers in food industry H.S.

WORK PROVIDES SHELTER

Need for protection from Elements/climate Animals Other humans

2-3

Carpenters Bricklayers/masons Plumbers Electricians Construction workers 3; H.S.--Architects as profes-Draftsmen sions, Interior designers in-depth House painters/paper hanger's Furniture designers etc. Local craftsmen Local furniture stores etc. Service/utilities connected with providing a house: Insulation Strength/structural support. Waterproofing Drinking water/hot water (plumbing) Toilets/drains (plumbing) Electricity/lighting Windows/storm windows Doors Heating Circulation of air/air conditioning Appliances (and their repair) Gas Stoves Refrigerator Washing machine/dryer Garbage removal Furniture Carpeting/floor tiles etc. Janitor .Doorman Concierge Chambermaid

ERIC

AFUII TEXAL Provided by ERIC

Building tools

K-3

Architectural forms	
Arch	
Column	
Post and lintel	
Vault .	H.S.
Dome	
Gable	•
Steeple	•
etc.,	,
K PROVIDES CLOTHING	•
Purposes of clothing	*
Protect from cold/sun/heat (desert)	K-3
People who survive cold without clothing	K-3
▲ Modesty ·	• J. H.
Color and style	J. H
Symbol of status	J. H.
Public conformity	H.S.
Shearing sheep/carding wool/spinning/weaving (loom)	4-5 .
Dyeing cloth Tie dye Batik Ikat/Chinc History of dyes Sources of various dyes	4-6
Making own clothes Tailor-made clothing (made-to-measure) Tailor Seamstress Commercial (factory-made/"boughten") clothing.	ј. нн. S
(made-to-size/off-the-rack) (H.S.)	9
Hides	
Fur	•
Felt	· ·
Cotton	0.5.0.
Wool	3 - 5, 8
Linen	•
Silk Sumthation	•
Synthetics	.•
etc.	•
Relative durability and life of different fabrics	

Texture



MAN AT PLAY

GENERAL CONSIDERATIONS

Why do we want to play, relax, be entertained? Why do we need to play? Play for enjoyment	
Release from pressure/obligations Competition/satisfaction of ego Psychological need Change from routine of work	K-3
Function (even necessity) of dreams	H. S.
Recreation as RE-creation	H, S.
Four-day work week (with increased amount of leisure)	, 12
Olympic games (ancient and modern) Do-it-yourself projects Developing personal interests	K-12
Competition in play as a cultural indicator (c.g., American Indian versus modern U.S.)	н.s.
Profitable use of leisure for the elderly	H.S.
Math applications: Use of mathematics in sports Running Climbing	
Keeping scores Card games	K-12
Hobbies Mathematics and art	_
mamematics and art	

PASSIVE ACTIVITIES

Inactivity/rest	,			
Ability to feel comfortable alone		•		•
Meditation/prayer			٠.	H.S.
Rest days and holidays'		~	,	
Vacations			•	K-3
Conversation				K-,3.
Reading				



	· · · · · · · · · · · · · · · · · · ·	
	Hobbies	
	Stamp collecting .	• '
•	Model making (ships, airplanes, etc.)	
	Note that the second se	
-	Insect collecting	K-:
	Coin collecting	17
^	Cooking	•
	etc.	
	Spectator sports	
F	HUMOR	
•		
	Things that are funny	K
ŧ	Humor and social relationsjokes (ethnic,	•
	religious) that are derisive	J. H
	Being able to laugh at self	
	Political cartoons	
	Art Buchwald	** 0
	"Catch 22"	H.S
	etc.	
	Cultural basis of humor	
F	NJOYING NATURE	
, <u> </u>	MOUTING WATORE	
	Hiking	
	Jogging.	
	Swimming	
	Skiing	K-1
	Bicycling	
	Gardening/horticulture	
	etc.	
	Nature study ,	
•	Herbarium .	K-12
4	Observing animals	
· 711	RAVELING (see Man in this Dhysical Environment (top. 1)	•
	RAVELING (see Man in His Physical Environment strand)	
	°o Pienies	
	Short excursions	
	Vacation travel	
	Travel in other sections of America	K-12
	Travel to Europe	
	-Travel to exotic forcign lands	
		,• ,
• •	91	
	• • • • • • • • • • • • • • • • • • •	-

RECREATION

			•	•	
Play		_	•		. >
I	iake be	lieve			•
Toys	•	•			
Games					
Sports7	athletic	es			
A	s parti	cipani	t		
. А	s spect	ator		•	••
Outdoor	sports	•			
C	ompetit	ive s	ports.		
	Tr	ack a	nd fiel	ld	
	Te	am ba	ll gar	nes	
	Ind	ividu	al con	pet	ltion
Ir	dividua			•	

Ice and snow sports

(see Man as Creator and Explorer strand)

Water sports

Team games

Indoor sports

Individual sports
Personal combat

THE ARTS--active involvement as observer/comoisseur

Primary, secondary colors

Color wheel (and interrelationships)

Comedy-tragedy

Musical instruments

Percussion

Woodwinds

Strings

etc.

Painter

Sculptor Conducto..... Actor/actress Singer

K-1

1-3

H.S.

K-12

K-12

K-3



•	Effect on culture		7
	Professions in the arts		H.S.
LEI	SURE INSTITUTIONS IN THE COMMUNITY		•
	Museums	•	K-12
	Zoos/zoo animals Circuses/circus performers	•	К - 6
•	Amusement parks		d

General appreciation



MAN AS CREATOR AND EXPLORER

EXPLORING THE ARTS

Early man's innate need to objects	o decorate p	urgly utili	tarian	7-H.S.
Probable magical-religiou Palaeolithic art	ıs purposes	of	* *	, a ÷ a
		•		7-H.S.
Emotional-expressive pote	ential of the	art forms	_	H.S.
Art as:		,	•	
Communication	4	,		
Experience	•		•	
Play				•
Therapy		• •	•	•
Documentary history material)	(= primary	resource	٠,	H.S.
Development of the to	otal man	•	•	
Vocation/profession	orai man			•
etc.	•	•	•	
		•	•	
Art forms (Fine Arts)				•
Visual arts		•	•	
Drawing	•		,	•
Printmaking/gr	aphic arts	•	L	
Painting •				· ·
Sculpture	•	•	:	_
. Architecture		•		•
´ Crafts				4.4
Photography/fil	m making		•	
Performing arts	,		•	K-12
Theater/drama			• • •	1,
Opera		•		
Dance				•
· Instrumental mu	ısic		• •.	
Vocal music				
Poetry	•			•
Literature		·		B
• • •	. •		:	•
Applied arts	A.J		•	•
City planning	Advertising			
Interior design	Fashion de			H. S
Furniture design	Theater dea	sign	•	,
Industrial design				



```
Structure of the arts
     Art
           Elements of design
                 Line
                 Form (shape)
               - Color
                 Texture
                 Value (light/dark)
                 Space
           Principles of design
                Unity (harmony)
                 Similarity
                 Repetition
                 Emphasis
                 Movement (direction)
                 Balance
                 Contrast (variety)
                 Rhythm
                 Proportion
                 Tension
                 Transition
     Music
           Organization ~.
                 Melody
                 Rhythm and meter
                 Harmony
                 Tone
                 Tempo
           Systems of order and organization
                 Form
                      Ternary
                                                           H.S.
                      Binary
                Musical notations
                      Clefs
                     Time values
           Music elements
                Beat
                Meter
                Half notes
                 Quarter notes
                Eighth nótes
                Melodic rhythm
                Rhythm patterns
                Rests '
```

ERIC

Melody Tomal patterns . High and low tonal patterns Form Like and unlike phráses J.H. Solo--chorus style Sequence Repeat sign Understanding sounds Expressive qualities of music . Expressing oneself through music Listening-for mood Dynamics Tempo Ear training K-12 Playing by ear . Playing instruments Sounds--near and far (K-2) Rhythm and melody games for recapitulation of learning Musical forms - Sonata Song Fugue Ballad Carol Hymn ' Spiritual Lullaby Madrigal Round J. H. -H. Ş Concerto Etudé March Ovérture Serenade Symphony Oratorio Folk music National anthem etc.

Musical instruments Stringed instruments Woodwind instrumentsa Brass instruments .. J. н. -н. S. Percussion instruments Whistle-type instruments Reed-type instruments Electronic instruments Famous musicians · Bach ' Beethoven Brahms Chopin Debussy Handel Mendelssohn because they Mozart are, all, Profoviev European Ravel Schubert Strauss Tchaikovsky Vivaldi Wagner -.etc. Poetry Elements Meter Rhythm Rhyme Word order Stanzas J.H.-H.S. Sound (alliteration, etc.) Imagery Types Lyric

Narrative Epic Dramatic



Forms Elegy Sonnet Haiku J. H. -H. S. Limerick Ballads Odes ētc. Prose Elements Plot ' Setting Style . Mood Tone Theme . J.H. - H.S, Forms Short story Novel · Essay One-act play Three-act play Journalistic reporting Dance Techniques Steps Body position Arm and leg movements Mime Jumps Styles J. н. -н. s. Classic . Folk Modern Ballroom Ethnic origin etď. Choreography H.S.

Pain	ting .	
e	Types of paint (painting media)	•
•	011	 \
•	Watercolor	. ,
• . 91	Pastels —	
	Casein/gouache	H.S.
c.	Egg tempera	
	Synthetic media	·
•	Fresco	•
	etc.	
-	Sources of pigments	7, H.S.
	Subject matter	•
•	Landscape	•
	Portraits	
	Figures	
	Still life	<i>7.</i> 11 C
•	Genre (everyday life)	7, H.S.
•	Historical/allegorical/religious	• • •
	themes -	
	etc.	• •
Craft	ta · · · ·	•
•	related to social, cultural, technological	•
z ca) veh	elopment7, H.S.)	•
2	Ceramics	
٠.	Wood	
	Leather	,
	Glass	• •
-	Basketweaving	
	Weaving	•
•	Jewelry making	K-12
	Batik/tie dye	4
	Plastics "	
. ,	Macrame	
•	Metal-enamel	4
•	etc.	, .
Pantomime		
Roleplaying	•	` K-12
Trorehraams		

Mythology/folklore/legend Fairy tales (K-6) Nursery rhymes (K-2) Literary criticism Fiction/nonfiction Essay Novel Science fiction Historic study of (including non-Western periods and areas) Art Music Drama. Literature Poetry ' etc. 19th and 20th century art movements that are chronologically from realism toward (and finally completely to) abstraction: Academism Neo-Classicism Romanticism Impressionism Post-Impressionism Fauvism Expressionism . Cubism ·Futurism Non-Objectivism Neo-Plasticism Development of Discrimination skills Shape/texture/color coordination Development of Manipulative skills Movement/grace/control/neurological and motor coordination Gross motor (K-1) Appreciation/Participation development For the appreciation of others Pleasure Pride Betterment of the environment Means of livelihood Health

J. н. −н. S.

H.S.

TOC

etc.

Famous	₹
Artists	
Actors	
Authors Musicians	7
Poets	
Architects	
Familiarity with their works	· —
Receiver-audience roles/relationships	н.
Expressiveness as related to self-imagea	
conscious study of	H.S.
Role of art in education, social, and psychological	,
development	H.S.
The aesthetic experience	
Art, music, drama, dance as communication	K-12
Creative writing (by dictationK-2)	3-12
Joke writing	3-6
Planning	:5-12
Use of personification, metaphor, simile	J. H.
Recognition of various writing styles	• H.S.
Journalistic skills	J. HH. S.
Map skills	3-4
Problem-solving ,	K-12 –
Organizing knowledge and information	5-12 🤙

EXPLORING NEW HORIZONS

Major explorers
Columbus
De Gama
Drake
Magellan
Marco Polo
Discovery of America
Arctic explorations
Viking voyages

4, 5, 7__



Travel books/National Geographic magazines (as fantasy-producers) Climbing Mt. Everest Exploring the oceans Travel to the moon and exploration of outer space Astronaut Developing the West (gold rush) Lewis and Clark expedition etc. EXPLORING THE LIMITS OF RESOURCES AND IDEAS Man as inventor, explorer, discoverer, restless K-12 re-arranger; orronomy · H. S. Spirit of scientific inquiry K-12 Research application in experimentation H.S. The scientific process of investigation Difficulties of applying it to complex H.S. human affairs Importance of microscope and telescope in investigating the unknown J.H. Famous scientists and their discoveries Famous inventors Famous medical discoveries Anaesthesia Penicillin · - Acupuncture Development of writing Invention of printing

Development of writing
Invention of printing
Establishment of libraries
Invention of photography
Invention of audio recording/taping
Invention of microfilm
Invention of the motion picture camera
etc.

Major inventions Laser Wheel Vacuum cleaner Control of fire Washing machine · Timepieces (clocks) Xerox \ Electric light Refrigeration Zipper. Scissors. Air conditioning Conveyer belt Printing Radio Elevator Escalator Motion picture Pipeline | Telegraph Subway Telephone Suspension bridge Television Jet propulsion · Automobile Radar Airplane ar. Railroad Ar mic bomb Rockets Gunpowder Computer Cannon Iron lung Dynamite -X-ray Machine gun Cotton gin Gas mask Sewing machiné Guided missile Steam engine Helicopter Milking machine Submarine Cement/concrete Boomerang Plywdod Adding machine. Microscope Telescope Cash register Dictaphone Loom Cire perdue Tape recorder . cast Phonograph Welding Camera/photography Turbine Typewriter Dry cell battery Paper

Design and machanics of the above inventions
(See The Way Things Work, Vols. I and II,
Simon and Schuster: 1967; and Richard
Koff, How Does it Work?, Signet: 1961.)

Mathematics as a tool to predict Math and science as creative efforts

Pneumatic tube

.

H.S.

H.S.

Concept of zero in mathematics -	К-2
Archaeology Prehistoric times Anthropology Finding cures for diseases	, Ј. НН. S.
Nobel Prize Pulitzer Prize Patent Copyright Trademark	H.S.
Conquered diseases (smallpox, polio, malaria, etc.) Quest for cure for cancer etc.	4-7
Herbs Medicines Drugs/pharmaceuticals	J. H.
Heart (and other organs) transplants	H.S. ,
New technological advances in architecture which changed the face of architecture Structural steel eliminates need for loadbearing walls "Shotcrete" (free-form sprayed concrete) Cantilevering	
Geodesic dome (Buckminster Fuller) Elevators make multi-level buildings possible, reducing land-space needs	H. S.
Modular housing Pre-fab buildings Mobile homes/trailer courts etc.	
invented materials (which are as indispensable as natural resources) Glass Paper Plastics etc.	2-4
History Development Uses Local industries	5-7



. Egyptian hieroglyphics Chinese pictographs/ideographs U. N. 's instantaneous translation system Attempts to use computer to translate languages Effect of data processing on planning and inventory, control Importance of measurement and observational H. S. equipment in diagnosing diseases Use of the computer to diagnose and prescribe in medicine The computer as a tool for planning for the future, Buckminster Fuller's World Game Louis Pasteur Eli Whitney Copernicus Galileo Jonas Salk Sir Joseph Lister' Sabin van Leeuwenkoek Koch etc. Math application (Use of proportions and scale drawing (J. H.) Time zones 3-6

Map reading

MAN IN CONFLICT

INTERNAL

What do you consider worth fighting/dying for?
Is anything worth dying for?
Responding to peer pressure
Adhering to rules and laws
Making choices
Knowing what is best for me
Differing between emotion and reason
Dealing with the unfamiliar, trying new things
Using problem-solving skills

K-12,. Important at every grade, every lesson. Teacher role important.

INTERPERSONAL

Jealousy Arguments/misunderstandings/disagreements	K-3
Personality conflicts	H.S
Self-defense/defensiveness	J. HH. S.
Defense of family - Defense of property	1-6
Ownership/sharing .	K-2
Competition Concept Economic	K-2 J. HH. S.
Duel	4, 5
FeudHatfields and McCoys (Kentucky)	3-5
Vendetta	6-7
Peace pipe	3-5
Biases/prejudices	2-12
Honor	J. HH. S.
Locks, keys (protecting personal property)	5_7

INTERGROUP

Athletic competition	,	K-12
Physical games (e.g., football) as a uncontrolled aggression and comba		H.S.
Political philosophies	•	
Parties Campaigns Liberal, conservative		J. HH. S
Religion		H.S.
Causes of conflict Protection Preservation Aggression		, ;
Offensive/defensive Nationalism Economics Power	· /	н. S.
Supply and demand (as source of cor and have-nots	nflict), baves	J. H.
Federal versus state's rights		11, H.S.
Early conflicts between new settlers American Indians	and .	4, 8, 11
Biographies of human rights leaders Martin Luther King, Jr.)	s (e.g.,	4, 8, 11
Opinion-based biases/propaganda, n	mass persuasion	H.S.
Defense against Unethical business Unjustified accusation Anarchy		H. S.
Social group pressure Infringement of personal right Persons from whom you perso		
no retaliation Skyjackers/kidnappers/d riots Unwanted mail Offensive and superfluous adve		J. HH. S.

Unsolicitated sales approaches Crippling strikes H.S. Conflict in cities as a result of Crime . Overcrowding Intolerable conditions 14 · J. H. -H. S. Discrimination Racial hatred and injustice as source of conflict Protection of ideas, inventions, written work **Patents** Copyrights H.S. Trademarks Math application Business conflict (bankruptcy) H.S.

H.S.

INTRANATIONAL

Civil order

Personal safety (K-6)
Crime
Police
Jails/prisons
Capital punishment

Court of Civil Law Juvenile courts Family courts Detention laws

Martial law Rights of victim

Bail--availability, bondsmen

Legal technicalities. Prison reform

Question of Attica

Use of National Guard

Rights of offender

Rights of minors

Detention facilities (none for juveniles in

Utica)

Question of gun control



•		/ 1
Problem: complete elimination of crime would take immense power, and immense power usually	•	
means tyranny		H. S.
Graft		:
Organized crime		
Bribery		H.S.
Political corruption		•
Keefe Commission		
Vandalism/pillage/plundering/looting/pirating/		•
marauding		J. H.
Gang warfare	•	
Self-defense		
Karate	*	J. нн. S.
Judo	÷:	•
etc.	- ,	•
Conflict over personal beliefs, moral convictions,	•	
life style, etc.		J. HH. S.
Civil War		•
Regionalism		•
Competition for		
Federal funds Tourism		•
World Series	1	
New business	K	H.S.
Political conventions		,
etc.	• .	
FBI, CIAWho controls?		H.S.
ERNATIONAL		•
•		

INTE

Threats of war and actual war as traditional "solution" to problems between people and H. S. nations



Major wars throughout human history Wars of Rome Exploits of Alexander the Great Crimean War French Revolution Mexican War Spanish American War Revolutionary, War Civil War World War 1 World War II Korean Conflict Vietnam Six-Day War (Arab Israeli) Weapons of warfare Stones/rocks Sticks/clubs Slingshot Bow and arrow Crossbow Knives/dagger/spear/sword Catapult Cannon Guns Tanks : Bombs . Atomic bomb Chemical warfare Defoliation. Napalm etc. Cold war weapons 5th column **Economics** Diatribe Propaganda Intelligence Counter-intelligence

J. H. -H. S. J. H. -H. S.

J. H. -H. S.

H.S.

Military tactics/military strategy

History of military training and preparedness

Logistics

Ethica	al-moral issue re:	•
	Use of atomic bomb	•
	Napalm	
	Cloud seeding/bombing the dikes	,
	Use of war itself	•
_	Geneva conventions (= "civilized" ways of	
•	killing people) Biological warfare	
	Saturation bombing	·H.S.
	My Lai massacre	•
•	Amnesty	
	Military-civil surveillance of the Individual	•
	Brainwashing	
•	Indiscriminate bombing	
War a	nd aggression as personal and national values	
	fication of war (e.g., Vikings, Japanese	
	ior class, Hitler, etc.)	н. s.
Machi	smo	
	lication of the military	H.S.
•		\$
•	forces/military services	
	Army Navy	
	Air Force	
	Marine Corps	8 .
	Coast Guard	
1	National Guard	
,	Volunteer army	
Psycho	plogy of defeat	•
	ology of victory	
	dea that the "winner" is never "guilty"	H.S.
	Does might make right?	•
Cold w	ar '	
	alliances	H.S. (11)
	•	
Hostag	ers of war treatment	ניכ
_	captured in warfare	H.S.
ال المبد	The same of the sa	



			•		
Problem of Hitler an	d the extermin	nation of the			:
Japanese incarcerati during World War I U.S. massacres of the Neutrality	I .	•		H.S.	. ′
Diplomacy as a mean				•	
as a consequence of Positive diplomacy in Peace Corps				H.S.	
Espionage (7)	. 1	•		•	غد
Sabotage Traitors/treason		•	· :	H.S.	
. Peaceful roles of mil . Education Diplomacy	itary		•.		•
Engineering Research Medical advanc		, ·	•	H.S.,	
Disaster assist	anceRed Cro	oss .	٠٠.		
Famous generals, co	,	*	¢a. ·		
Napoleon Lee Grant etc.	•			4, J. H	H. S.
Bomb shelters (public	and privates		`, •	шс	
ICBMs	- and private)			H.S.	
Arms race			,	H.S.	
Documentation of war Recordings Books Paintings/sketel		n general)	•		
Photographs Television"liv War correspond	ving room battl	lefield"	• • • •	;	
Historians Memorabilia Museums		→	•	4-12	· .
Censure Right of public to Pentagon Papers					
Surveillance	,	- ·		. •	
etc.	112				•
,				-	

Manifest destiny/imperial design Idea that "God is on our side"	H.S
Crimes against oneself versus crimes against others	H.S.
Glamourizing war to those not directly involved War profiteering	H.S.
Dressing for combat Armor Indian war paint Shields	· . <i>'</i>
Uniforms Insignia Crests etc.	4-7
Possible function of United Nations in policing world	H.S.
Conflict resolution/conflict management	K-12
Peaceful alternatives to war Negotiation/arbitration Diplomacy Compromise Capitulation Nonviolent resistance Conscientious objection Draft evasion Peace movement Civil disobedience etc.	ј. нн. S.
Mathematics in war Strategy Statistics Role of mathematics in building the future Space program	H. S.
, obace brogram	/



MAN AND HIS ASPIRATIONS AND FEARS

EXPLAINING THE UNEXPLAINABLE

Who am I? Where did I come from? H.S. Why am I here? Where am I going? Man's urge to know His divine discontent His search for meaning His question of the beginning and the end His question of the purpose of life Man's development of religion in quest for answer H.S. (see Man and His Gods strand) Man's increasing sense of defeat and futility, versus Man the incurable optimist "Swing Low, Sweet Chariot" "We Shall Overcome"

MEN'S FEARS

Pain/suffering Grief Death Failure Corruptability etc. Natural calamities Epidemics. H.S. Accidents/bodily injuries Pain as a phenomenon/suffering J. H. -H. S Theories of cause of disease Superstitions Displeasure of the gods Sin/guilt H.S. Karma Germ theory Attitudes toward death K-12 Ideas of the afterlife

Is there life after "earth death"? THE OCCULT SCIENCES		H.S.
Occultism		•
ESP/mental telepathy	,	٠,
Clairvoyance		11 6
Precognition	,	H, S
Fascination with the satanic/black n	nagic	•
ESP/mental telepathy		
Evidence for	-	
Public attitudes against		H.S.
Atrophied senses		
Superstitions, omens, and lucky signs	, ,	
Astrology (Zodiac/horoscopes)		-
Divination		
Fortune telling		•
Phrenology	•	
Physiognomy		
Graphology		
Palmistry		H.S.
Numerology		
Colorology		
· Tarot		
Teacup reading	•	
Interpretation of dreams	•	•
Divining rod		•
etc.	-	٠.
Samaania 9	,	
Sorcery Witch doctors		
Navajo sand paintings	•	'H.S.
Faith healing	1	11,0,
Christian Science approach to healing	· · · · · · · · · · · · · · · · · · ·	
•	•	
Amulet/charm	*	,
Fetish	•	r
Idol '	, , , ,	
Omen	· /	uc
Oracle	• •	H.S.
Totem		
Trance		•
Voodoo	•	•
Witcherast	•	· .

H.S.

ira	inscendental mei	ditation.	•	·		H.S.
. Yog	ga '.	. •				H.S.
	temporary myst effort to pierce			•		H.S.
The	power of the un		s (Jung)	:		H.S.
,	igious fanaticism drug culture	n .		•	-	H.S.
Luc	k/¢hance	•	•			H.S.
Нур	notism 🕟 .	*				
	PHY AS AN ATT	•	PROVIDE E	XPLANATI	IONS	•
•	Ethics Logic Aesthetics Metaphysics	•	. 1			H.S.
Fam	nous philosopher Aristotle Confucius John Dewey Hegel	rs ·				•
• _ • • • •	Kant Nietzsche		,	s		,H.S.
	Plato Jean-Paul Sar Socrates etc.	tre		•		,
FANTASY	WORLD	>		•		,
Scien	ects to promote acc fiction atology	imagination			· .	3-6
, 000.	7	•	4		. 4	. , '*

121

. 116



Imag	inary animals			.:	
•	Dragon		-		•
	Chimera		•		1
	Unicorn			- ,	<i>!</i>
	Griffin .				
4	Sphinx		•	•	1
Q	Mermaid	•			1
•	Minotaur '				0.0
	Centaur			•	3-6
	Satyr				_
	Werewolf		4		•
	Sea serpent		• •	•	• '
	The Abominable	Snowman			
	Bigfoot	•	•		
	etc.			4	
Ghost	rs A	•	•		٠,
	Ghost stories	•	•		3-6
Gobel			,		
		•		` •	•
Giant			•		
Fairi		•	•		• •
Witch	•	٠.			
Genii		• .			•
Elf	•				3-6,
	echaun	•	*		
3row	•		•		
Vymp	h				•
etc.	,		•		:
	. m			•	•
)KIN(G THE UNKNOWN	<u>v</u> (see Mar	aș Creator an	α .	• •

Explorer strand)

Man's quest for Utopia Utopian experiments Ponce de Leon and the Fountain of Youth King Arthur and the Holy Grail Search for Shangri-La Man's will to prevail to conquer the unknown The spirit of scientific inquiry The exploration of space Moon landings Elimination of disease Mathematics as a tool to predict (see Man'as Greator and Explorer)

The Colonial period in America	· ·.
The Westward movement	4 0 11
Colonialism and aspirations toward self-realization	4, 8, 11
everywheredesire for freedom and independence	
PREDICTING AND PLANNING FOR THE FUTURE	•
	,
Predicting future possibilities in	
Transportation	
Communication	
Science .	
Medicine	J. HH. S
Éducation	
Architecture	
etc.	
Planning cities of the 21st century	J. HH. S
Lack of stability in such a rapidly changing world as ours (<u>Future Shock</u>)	ј.нн. s
1984 Science fiction as an indicator of future inventions	H.S.
Prophecy	•
Major prophets	•
Moses	
Isaiah	
Ezekiel	H.S.
Jeremiah '	G
Leonardo da Vinci	
Jules Verne	
ες, H.G. Wells	
Math application: Probabilityrelation to change and luck	u e
(gambling)	H.S.
. (Ramming)	

MAN AND HIS GODS

H.S.

H.S.

THE RELIGIOUS QUEST

Who am I?
Where did I come from? (Who made me?)
Why am I here?
Where am I going? (afterlife)

Need to worship a Being greater than self Need to commit one's self to a cause Need to seek answers to questions of origin and of hereafter

Right of every man to worship as he pleases
Agnostic
Atheist

Ideas re: purpose of life?

WORLD RELIGIONS

Various religions men have developed (and their major beliefs) (N.B.: avoid comparisons since this approach often assumes ethocentric and heirarchical values)

Hinduism Buddhism

Confucianism

Judaism

Islam

Christianity

Catholics

Protestants (including various denominations and sects)

Ancient religions:

Greek/Roman gods

Mythology

Egyptian gods

Norse gods

etc.

124

Magic Ritual Cosmology Mythology H.S. Astrology Animism Luck and chance Famous religious figures: Allah Baal Brahman Jehovah Jesus Christ Siva Vishnu 7, H.S. Buddha (Gautama) Mohammed Zoroaster Dalai Lama St. Paul etc. SACRED SCRIPTURES, PLACES, AND OBJECTS

Bible

Old Testament New Testament Ten Commandments Koran Bhagavad-Gita

Rig-Vcda Ramayana Talmud

Torah etc.

Translations of the Bible

Septuagint **Yulgate** Douai Version King James Version Revised Standard Version

7, H.S.

Bible as literature	•
Bible as prophecy	
Bible as historic record	H.S.
Bible as God's word	
•	
Sacred mountains (e.g., Mt. Fuji/Mt. Sinai),	
Sacred rivers (Ganges/Jordan)	• .
Sacred trees (Bo Tree)	
Sacred cows in India	
Icons	
Images	7, 10
Idols /	•,
Ark of Covenant Rélics	
•	
Rosary beads	
Prayer wheels	
Sacred stones	•
Religious places -	•
· Holy Land (holy to three religionsJudaism,	•
Christianity, Islam)	-
Mecca	_
Ganges River	7
Salt Lake City -	
Vatican	٠.
etc.	•
· • • • • • • • • • • • • • • • • • • •	
MATERIAL ASPECTS OF WORSHIP	
	•
Religious symbols	,
Star of David	-
Cross	
Moslem star and crescent	
Fish	
Dove	•
etc.	• .
Religious architecture	,
Shrine	• •
Chapel -	; 3-4. 7
Church .	
Cathedral	. سا
Synagogue ` Tabernacle	
	,
Temple	•
Mosque	
Pagoda Walling Wall	
Wailing Wall Altar 121	•
- 126 ·	•

•		•	
Forms of worship:			-
Meditation			
Fasting '		•	•
Prayer			
Preaching			•
Church attendance			
Ritual			
Sacrificial offering	•	•	н с
Relating to other men			11.4
Missions/missionaries	•	•	
Benevolences/charities			•
Tithing			
Faith healing	•	•	
Revelation'			
Mystical experiences			
etc.			
. Private worship/corporate worship			
Formal worship/informal worship		•	H.S
• •			
Religious rituals	•	•	,
Rites of passage			
Birth rituals (e.g., baptism, circumcision,			•
christening, etc.)			
Death rituals (wakes, burial, cremation,			н. s.
mummification, etc.)			
Life stages rituals (puberty, communion,		•	
Bar Mitzvahs)			

RELIGIOUS OFFICES

Priests/ministers (ordination)

Monks

Nuns

Holy men

Prophets

Missionaries

Saints of the Catholic Church

Pope
Cardinals

Bishops

Monastic orders of the Catholic Church

RELIGIOUS CONCEPTS

Concepts of life after death Reincarnation Heaven ' Hell/Devil Angels/Archangels Confirmation Catechism Baptism Communion Fundamentalism Golden Rule Halo/nimbus Holy family Holy Ghost Messiah/Saviour Millennium Paradise Resurrection Sacrament T inity Altar . Holy Water Icon Incense Rosary **Fasting** Euthanasia Crusades Pacifism Creed Pantheism Polytheism Predestination Free will Separation of church and state Supreme being or power Heresy Divine right of kings

Shaman Talisman Medicine man H.S. (and for Utica, part of religious education through the grades)



Mana (impersonal power) Faith Miracles/cures Sacred objects and places/pilgrimages H.S. Revelation Taboos Eating restrictions Vegetarianism Kosher food--dietary laws Sacred eows in India Taboos (Why do we eat cows but not horses?) 7, H.S. Camibalism (as a means of obtaining the other person's spirit) -Religious communities (and their life styles) Shakers Mennonites Amish · H.S. Mormons Quakers etc. MISCELLANEOUS CONSIDERATIONS Religious intolerance Anti-Semitism Martyrdom Persecution H.S. Crusades Inquisition Ku Klux Klan America as a place of religious refuge **Pilgrims** Jews Society of Friends etc. Persecution of the Jews Persecution of the Christians

H.S.



Catacombs

History of the early Christian Church Role of the Church in Medieval Europe Reformation	•	7 10
The arts in service of religion		-
Sacred music	•	
Religious painting		
Passion Play		H. S.
Statues of Buddha, Christ, Saints, etc.		п. э,
Votive figures		
•		

THE LEARNING EXPERIENCE

(Basic Skill Needs for the Acquisition of Knowledge)

(N.B.: The Utica Elementary Schools have developed an excellent <u>Elementary</u>
Reading Skills Guide (September 1971) and an equally fine guide for the <u>Mathematical</u>
Skills (August 1972). These should both be incorporated into this section.)

(N.B.: Similar <u>skill level assessments</u> as appearing below for the <u>Kindergarten</u> level should be made for each grade level. Upper levels, in addition to the categories listed here, would also add "Writing." Reading and Math skills have been omitted from this listing since they are covered in the above-referenced guides.)

SKILLS ON THE KINDERGARTEN LEVEL

Listening skills (auditory perception)

To teacher

To each other

To story

For directions

To sounds (ears, trucks, etc.) (gross/fine)

To musik

Attention span

Speaking skills (ability to use their own language)

Name-address

Getling acquainted with peers

Dramatizing

Making personal needs known (bathroom, drink,

r paper, books, crayons, etc.)

Singing

Finger-play

Rhymes

Observing (visual perception/spatial relationships)

Traffic lights

Color differentiation

Shapes

Likes and differences'

Developing sensory awareness



Motor skills Large muscle movements Small muscle movements Throwing, catching Jumping, running, skipping, balancing Writing Crayons Painting (easel and fingerpainting) Gutting Pasting Classification Fruits, vegetables Animals Zoo, circus, pets Shapes Letters Seeds, shells, rocks Reading Writing -Composition Spelling Penmanship Vocabulary Gram'mar **Phonetics** Semantics elc... __() Synonyms Antonyms Homonyms Listening skills (How well do we listen?) Listening for: Details Facts Opinions Inferences Comparisons Thinking skills

•

Oral and written expression

Use of:

Dictionary
Thesaurus
Encyclopedia
Atlas/maps
Cross references
Footnotes
Glossary
Index

Table of Contents

Study skills
Information gathering
Information organizing .
Library
Writing a report
Outlining
etc.

Mathematics skills
Addition
Subtraction
Multiplication (including multiplication tables)
Division
Fractions
Percentages
etc.

Typing Shorthand

4. GENERAL CURRICULUM COVERAGE BY GRADE LEVELS

Please refer to Section 3 of this report for general assignment of the topics and issues to specific grade levels. These are presented as indicators rather than as binding commitments.

In this section, our concern is with a more theoretical level. The chart which follows illustrates how concepts are intended to flow from grade to grade and from strand to strand. It also assumes that there will be continuity in both directions and that each level will build on the preceding one. No topic is meant to be presented in isolation. At any given grade level, there has been an attempt to relate all the strands to each other.

Especially in the lower grades it is essential that students not be forced to follow the chart exactly. Some may be obviously ahead or behind the particular point where the chart shows they should be. In other words, the chart should be interpreted flexibly.

The coverage suggested here is only one of several ways which might be advocated, but it is a way, we feel, which is completely compatible with the model itself, starting with the self and expanding outwards. By the time a student has reached high school under this plan, he should have enough data to know how he has become what and who he is, he should be well aware of what the options and their consequences are, and be able to make meaningful decisions.



SIX	World-wide interrolationships. Their effect on me.	Senso of how pooplo in other countries make my life what it is.	Familios and friendship pattorns in other cultures.	The international community. Ways countries cooperate with one another. Similarity of needs. Dissimilarity in resources and in whys of meeting needs.	Natural physical environ- ments and their effect on world relationships. Man-made environments as shelter, as symbols of culture and ideas.	
rive 🙀	Relating to people who lived before me. Their effect on me.	Sense of how people who lived before me make my life what it is.	Families in other times.	Needs common to all communities ties. How and why communities have survived or collapsed over time. Elements which bind a community - economics, polities, tradition, language, culture, etc.	Physical environments – natural and man-made. Effect of natural environment on history.	
FOUR	Regional interrelationships Their effect on me.	Sense of how people in other regions make my life possible or difficult.	Families in other regions.	Regional cooporation. Interregional dependence. Regional alism. Types of communities in each.	Natural regions of the U. S. and their physical characteristics. How man has exploited them. How physical differences affect the life in each.	
THREE	Relating to people I don't know and don't see. Their effect on me.	Sense of how other people in my town make my life possible or difficult.	Families in other parts of the city.	City is made up of many communities. How they are alike and different. How they cooperate or fail to cooperate. Decline of the inner city. Communities unlike mine rural, suburban.	Development of the urban environment and comparison with communities which are physically different.	
,			13	j		

والمراجعة المساومة والمراجعة والمادا و

いと記事事では

			•	•		•
TWO	Poople and places in my life. Understanding how they relate to me.	Sense of belonging to family pêer group, neighborhood.	Rolating to family and friends.	People and places in the neighborhood. Jobs, common signs and symbols. Ways people cooperate or fail to cooperate.	Describes home, school, neighborhood environment - natural and man-made. Functions of and needs for things in that chvironment.	**
ONE	lation of my Uses two-dimensional representations to manipulate the three-dimensional world.	Sense of control over symbolic systems: listening, speaking, reading, writing, observing, drawing.	Uses symbolic representations to communicate ideas. Draws, reads, writes, follows diractions.	Uses and interprets symbolic representations to order his environment, e.g., clock, weathor chart, stop sign, stop light, pictographs, color codes, cakendar, letters, numbers, +, -, =.	Orients self in two-dimensional space. Top, bottom, front, back of book. Right to left eye movement. Shapes, toxtures, smells, colors, sizes in two-dimensions and relates them to real world.	,
. KINDERGARTEN	Myself and manipulation of my environment. Grade 1 continues from K and ad	Body awareness. Language development. Sense of uniqueness.	Compares and contrasts his body with others in the class.	Cooperates in group activities, shares, helps others, works alone, respects others who are working alone.	Orients self in space. Balance and direction. Climbs, runs, walks, throws, stands, sits. Puts things in their place.	
CURRICULUM	FOCUS	AND HIS SELF-IMAGE	AND HIS INTIMATES	AND HIS COMMUNITY	IN HIS PHYSICAL ENVIRONMENT	• *

UCIN	
COLMETO.	STATE OF THE PARTY

	- ت		
	My counterparts in time and space. Their solf-image, and	or	
	SC,	interrelationships with other recipio, other regions, other	
	mag	18,	
	1	zlor.	
	sol	reg	
	ir	er	
-	The	ਰ	,
	•	٥	Ę.
	go	g.	ُوَ چَو
	8	<u>ک</u> ز	ho
ż	S. S.	tho	E
ņ.	pu	h O	80
	Ħ	WIE	lao
	Ë	. sd	r p
•	irt	Bhi	the
	rpg	ton	o p
	mte	Int	an
	go	rre	times, and other places in the world.
	2	nte	ĮĮ.
	41		,

UNÍOR HIGH

Poople: the problems they share, their alternative solutions. Comparative systems. Alternatives for my 11so.

Sense of how being me here and now is different from being someone olse "there" or "then".

Sense of boing part of the human race having both reaponsibilities to others and choloes for self. Knowing and accepting self.

Evolution of family, friendship patterns, and intimate relationships through time and space.

Interporsonal rolations: importance of, levels of, developinent of. Coping with problems

Evolution of human communities through time and space. Systems of organization and adaptation to change.

The individual and his role in various political, economic, and social systems. Common problems and alternative sciutions. Personal liberty and community survival.

Evolution of the physical world and surrounding univorse Evolution in man-made environments in response to changing needs and technology.

Living things in communities - biology Effect of physical' onvironment on the individual. Personal space, 'large group space, community space, open space. Effect of celer, thaps size, distance. Problems of space and growing tichulation.

137

rwo	Doscribos people, places, and machines in his local contronnent in terms of their work function (c.g., flreman, firehouse, firetruck).	Explores various ways to spend leisure time quietly and actively. Reads for pleasure.	Understands that the town, he lives in and the things in his physical environment are a result of man's exploration and creativity (o.g., discovery of the town, making materials, and building the physical environment)	Common causes of conflict at home, at school, with paers. Ways to resolve those conflicts.	
ONE	Porforms a task by interproting two-dimensional (graphic or written) instructions. Tracos the performance of a task in sequential order from start to finish (verbally, pictorially, diagramatically, photographically), o.g., baking a cake, pathy, o.g., baking a cake, pathy a road, building a trochouse, cleaning a fishbowl, oto.	Gamos requiring two-dimensional symbols (o.g., board gamos , such as checkers or monopely, hopscotch). Amusos solf in frootimo without boing disruptive.	Croates in two dimensions (draws, paints, makes collages, oto.).	Identifies causes of conflict in simple stories or in real life situations. Draws or describes orally or with body language how he feels toward another porson or toward solf.	
KINDERGARTEN	Uses tools, builds, harmers, pulls, pushes; role plays (dress-up) poople who work in the community (e.g., plays store, firoman, gas station attendant, of (Gross and fino motor coordination. Sharing, playing with othors.	Explores own environment. Creates from a varioty of materials (colors, shapes, blooks, solssors)- Tries now activities and new materials.	Dosoribes what he does to express ploasure, angor. Selects a means of expressing anger other than physical retaliation against another person.	•
CURRICULUM	AT WORK	AT PLAY	AS CREATOR AND EXPLORER 38	IN CONFLICT) (c) (s)

;

RIC	THREE .	FOUR	FIVE	SIX	•
,	Describes interdependence of people and places in the community (e.g., police headquarters ~ precinct ~ local patrolman ~	Explains how goographic regions are interdependent; how people in different regions may do different work or similar work.	The evolution of technology accompanied by population growth; offect of the above on jobs, work, production, agriculture. He style.	Present world-wide govels of tochnology. Degree of world interdependence and reasons for economic extremes among nations.	•
•	courthouse - judge - jail. Or, factory and laborers - outlet - local store - truckers - salesman).				
•	Loisuro timo activities available in the commu- nity.	Regional differences and simi- / larities in selection of leisure- time activities (skiing, beating, stick ball).	Evolution of gamos throughout history. Man's invontiveness in providing entertainment (e.g., growth of circus, evolution of baseball, etc.).	Comparison of popular forms of ontextalument throughout the world, Alympic games. Composition - is it common to all men?	
139	Buildors, orentors, inventors in past and present in my town. Inventions that affect my life in the community (steel, light bulb). Local artists, architects, designers, inventors.	Regional differences stimulate invention, discovery, creativity. Major explorers, inventors, artists, and their contributions to improving the quality of life.	Progress of man through history as represented in his discoveries, inventions creative expression. What drives man to venture beyond the familiar and the secure?	Modorn man as creator, inventor. oxploror. World-wide cooperation and or competition to explore new worlds (the poles, spuce) or resolve comm problems (cancer, pollution).	·
	Effects of competition or conflict on my community (separated families, orime, price wars, strikes).	Rogional conflict over access to resources, over attitudes and ideas. Civil War, Federal vs. States Rights.	Major historical conflicts, their causes and offects on history. Conflict as a result of unlimited wants; limited resources.	The modern world conflict and interdopendence. World wars. Causes of conflicts and ways nations attempt to resolve conflict.	

	· ·			*	

SENIOR HIGH

Cultural importance of work and wealth in time and space.
Agricultural versus industrial communities. Uniqueness of work in the U. S. (work ethic).

Income, sources of incomo, and social status in comparative economic systems. Exploring vocational alternatives for solf in response to life and work goals.

Games and leisure time activities as they represent various cultures and societies (e.g., American Indian, Victorian woman, etc.).

Problems presented by increasing leisure time due to technology, the shorter work week, increased mobility. "Games people play."

Forms of expression, inventions, discoveries as they evolve through time, as they represent cultures, as they are or are not adopted by various cultures.

The human need to exeate, discover, explore in various cultural, social, political systems. Conditions that are conducive to erealivity, discovery (freedom?). Conditions which discourage ereativity and discovery.

Culture, rollgion, othnocontrism, polítical philosophios, as causes of personal and international conflict. Man's potential for coexistence in a pluralistic world.

Common chuses and effects of conflict in comparative social and political systems. A world without conflict: possibility and desireability.

that are common to most overcome fears or to fulpeople in my community. What they have done to Fears and aspirations fill aspirations.

are affected by where you Ilvo offoot on any foars and asplra-Foars and aspirations as they tions - 'exposing me to people, and who you know: Media places, things, outside my immediate experiences

Foar and People in other times - thèir man's response to change foars and aspirations. throughout history.

barrier to world-wide commuoffect on international coop-(foar of dostruction) and its nication. National survival Fears and aspirations as a eration.

(city). Places of worship. Religions that are practiced in my community Why do many people practice a religion?

that region (Salt Lake, California ethnic churacter, current offcot Regional settlements and their on: the religion practiced in Missions, China Town)

Davelopmont of rollgious prac-Immigrations and the introducreedom and the puritun ethie. tioos in the U.S. Religious tion of religious divorsity.

Major world religions, religiou figures. Religious composition tional (India/Pakistuh, Israel, England/Iroland) and internaof nations and the offect on intra-national (Pakistan. Egypt) cooperation

(3)
ERI	C
Full Text Provided	by ERIC

J.WO	Theoplo, places, and things I know - pleasing elements, fearful elements. Exploring what eaties feelings in me. Differences between funiusy any roulity as they contribute to fear (e.g., haunted house, authority figure, dogs, darknows, situations providing success or failure, etc.).	Identifies people and places in the neighborhood that have a religious significance (church synagogue, minister, priest, nun, rubbi, elder, ennter). Christian and Jewish helidays				
ONE	Dosoribos admirablo qualities in family and friends. Identifics likeable characters in stories. Identifics fears in story, televisjon, movie characters; cause of the fear and means of overcoming it.	Identifies religuous symbols (oross, Star of David), pictures (ohurch, priest, porson in prayer), and names various religious practiced in his neighborhood (Catholie, Methodist,	Jowish, Baptist).			
: KINDERGARTEN	Describes likes and dislikes in general terms. Describes the feeling of being afraid. Suggests, discusses how he might cope with four.	Using materials in the class- room, builds a church (syno- gogue, temple) and describes or role plays what occurs in the building.	**	c		
** CURRICULUM	AND HIS ASPIRATIONS AND FEARS	AND HIS GOD	142		:	

Fours and aspirations as a result of society's molding of the individual (e.g., aspire to make money or fear of strangers).

Identifying and dealing with personal fears and aspirations as they affect life goals.

Religion (its doctrines, writing) as it affects cultural practices in time and space (marriage, eating habits, roles of political leaders, dress, morals, artistic expression, etc.). Does man need religion?

Religions and philosophies in comparative political and social systems as an attempt to answer difficult questions (Why am I here? Where did I come from? What is death?). Exploring personal spiritual needs.

Between the steps of laying out the theoretical directions indicated in the preceding chart and actually building the curriculum units, we are suggesting the need for an intermediate step such as the one illustrated below. Such a procedure would span the distance from theory to specifics by relating the topics and issues on our coverage list. This step has been completed for the strand Man In His Community so that it might serve as a guide to performing the same task for the other strands.

Organization

- People
- Places
- Processes
- Distribution of people, places, processes
 - -- Kindergarten

People - Who am I? Self as family member. Self as part of a generation; peer group.

Places in my community - home, school, stores in immediate environment.

Modes of travel.

-- 1st Grade

People - Who are the people around me? Friends, peers, teachers, community.

Getting to know my neighborhood. Distances, directions. Finding my way in my neighborhood.

-- 2nd Grade

People - Who are the people in my community? Roles, races, religions, nationalities, leaders, age groups - the oldest person in my community.

Communities that are different from mine. Rural/urban. Using public transportation.

-- 3rd Grade

People in my city - Where They live. What they do. How they live.

People in other cities - Roles, races, religions, nationalities, languages, life styles.

ERIC

Other places - other cities. How people in other places travel.

-- 4th Grade

People - Geographic distribution - U.S. Farms, small towns, suburbs, cities, metropolitan centers, metropolis. People - distribution in other lands. Other places - other lands.

Distance, time, rate of speed, and modes of travel.

-- 5th Grade

People from other times. Western Hemisphere.

Comparing places in the modern Western Hemisphere; their evolution through history.

Transportation and growth of the Western Hemisphere, especially discovery and expansion of the U.S.

-- 6th Grade

People around the world.

Places in the modern world - their evolution through history
Emphasis on architecture of human dwellings.

Technology and transportation throughout history.

-- Junior High Great men in history. Evolution of the human race. Man as unique from other animals. Evolution of building and architecture. Animal dwellings - habitats. Adaptation - animals and man.

High School Life and death - man's role in various cultures. Man's need for: freedom, social relationships, love, success, power,

City planning - for a better environment.

Rebuilding the inner city - alternatives.

Psychological effects of space and arrangement of space:, tent, cathedral, in Peking, in Paris, in New York, etc.

Cooperation

- Needs
- Goods and Services

Access to Goods and Services

-- Kindergarten

Helping at home and at school.

Things I want and need. Trading, buying, selling, barter.

-- 1st Grade

Working together - sharing responsibility.

Working to earn money. Money - media of exchange.

How families spend money.

-- 2nd Grade

Human needs. How families cooperate to meet each others' needs.

Families spend money differently according to values. Supply and demand.
Banking, savings.

-- 3rd Grade

Community needs.

Providing goods and services in the community: jobs, careers. Competition - profit, losses, cost, price.

-- 4th Grade

Regions of the U.S. - How people cooperate throughout the country to meet the needs of Americans everywhere. Production of goods in U.S. regions. Satisfaction of needs: in warm climate, cold climate, deserts, outer space, during natural disasters.

-- 5th Grade

Trade in the Western Hemisphere. Role of trading in U. S. history.

Trade - import and export.

Satisfaction of needs: caveman, early-civilization, nomads, in wartime, in isolation - Robinson Crusoe.

-- 6th Grade

History of world trade. A look at modern trading practices (relationships).

Man's unequal access to goods and services within the country and throughout the world: natural resources, production, international wages, prices; diet, health, housing - international comparison.

-- Junior High

International cooperation to meet national needs: treaties, alliances, trade, empire building, balance of power, Third World.

Gross National Product. Growth through history - reasons.

Distribution of Gross National Product - minorities/whites,
men, women. -

Government spending - budget priorities.

Public supports to: unemployed, farmers, business, handicapped, aged - international comparisons.

-- High School

Economic causes of war through history. Comparative economic systems. Competition in different cultures.

Access to goods and services. Changing lifestyles dependent on income, education - employment practices. Inflation, depression.

An in-depth look at medical services - U. S. and abroad.

Socialization

- Self
- Groups
 - Societies
 - -- Kindergarten

Who am I? Appearance, religion, interests, experiences, background, likes, needs.

-- 1st Grade

How do I relate to others? Friendship, honesty, trust.

-- 2nd Grade

Relating to others in formal and informal groups: classes, clubs, gangs.

- In social settings: introductions, etiquette, manners.
- -- 3rd Grade

Community groups: professional, service, fun, church, political, merchants.

Why we form formal associations.

Why we form informal groups.

Group norms. Peer pressure.

147

-- 4th Grade

Groups which comprise the U. S.: racial, ethnic, national, religious. Political parties.

- National symbols, rituals, customs.
- -- 5th Grade

Social development of the U. S.: class, strata, status symbols, immigration and social acceptance, slavery.

-- 6th Grade

Social relationships throughout the world: caste system in India, racism, sexism.

Customs of dress throughout the world.

-- Junior High

Social evolution of the U.S.: American heritage, American Indians, Indians of New York, life in Early America, melting pot versus pluralistic society, growth of cities, and changing human relations.

Social problems: discrimination, juvenile delinquency, generation gap, crime, drugs, civil disorder, hunger.

-- High School

Societies in transition: acculturation, modernization in Third World, lack of stability in fast-changing society, future of institutions such as marriage.

Conforming to social pressures: acceptance/rejection, sensitivity, defensiveness/inhibitions, empathy, ability to express oneself.

Social problems: unemployment, classism, urban decay (housing), drugs, mental illness, suicide.
Comparative look at other social systems.

Communication

-- Kindergarten

Listening, speaking, "reading pictographs, symbols," drawing, giving names to letters and numerals, hearing stories.

- Decoding, reading, speaking, group-discussions, math symbols.
- -- <u>2nd Grade</u>
 Decoding, reading independently, foreign language (begin).
- -- 3rd Grade
 Letter writing, story writing, expository writing, communication media, Roman numerals.

4th Grade

Oral reporting; photography; reading newspapers, diagrams, maps, charts; reading music.

5th Grade

Language families. International travel symbols. Town meeting, debate.

6th Grade

Latin and Greek roots. Manipulative - advertising. Braille, sign language.

Junior High

Filmmaking. Journalism.

Figures of speech (metaphor, simile, pun, irony, sarcasm). Dead languages.

Deciphering languages (Linear "B").

Manipulative - editorials (commentary).

Brainwashing.

High School

Media as molders of public opinion: polls, propaganda, detecting propaganda, persuasion techniques, personal influ

Evolution of English alphabet.

Development of Esperanto and Esperazo.

Vocations in speaking, reading, writing.

Translation, problems of.

Dialect, slang, jargon.

Levels of communication.

Language differences as an international barrier, national barrier (Asia, Canada, New York City).

Regulation

- Law
- Civil Order
- Administration
- Individual and the System

149

Change

-- Kindergarten

Rules at home, making family decisions, enforcing family rules.

-- 1st Grade

Rules and laws in school, law or rule enforcement at school, school government.

-- 2nd Grade

Rules and laws in the community.

Police, lawyers, judges, trials.

Local government and its effect on my community: garbage, traffic, safety.

-- 3rd Grade

Reason for law: city codes, traffic, zoning, pollution. City officials, county officials.
Reasons for government: city, state.
Civic responsibility.
Symbols: rules governing respect for the flag, Statue of Liberty, Liberty Bell.

-- . 4th Grade

Contracts.

Resolution of arguments and misunderstandings.
Branches of government: Executive, Judicial, Legislative.
Parties, elections, conventions.
Citizenship: responsibility to country, family, church, school, clubs, etc.

-- 5th Grade

Law in U. S. history: colonies, early west.

State court system.

Federal court system.

Constitution and amending the constitution.

U. S. Government: monarchy to democracy, one man one vote.

Rights as citizens: Four Freedoms, Bill of Rights, Declaration of Independence, Magna Charta.

-- 6th Grade

Early legal codes.

Lawmaking process.

Comparing democracies.

United Nations.

Governments in history, city/states of ancient world, feudal system, monasticism.

ERIC

-- Junior High

Felonies and misdemeanors.

Treatment of offenders. Prisons - to remove from society, to punish, to rehabilitate?

Government and the public good: welfare, health (health boards), restaurant standards, water supply control. Federal versus states rights.

Changing laws: peaceful means, violence - is it ever justifiable?

-- High School

International law: local, state, national interrelationships. Comparative legal systems.

Comparative government: anarchy, monarchy, aristocracy, theocracy, democracy, socialism, communism, dictatorship, facism.

Government: loyalty, trust, credibility, responsiveness, acceptance of responsibility.

Changing government. Revolutions (characteristics, causes, effects, in world history).

Problems of unresponsive government.

Humanization

- Kindergarten
 Making friends sharing.
- -- <u>1st Grade</u>
 Working with others, helping, cooperating.
- -- 2nd Grade
 Building relationships What makes me feel good? What makes you feel good?
 What is a friend?
- -- 3rd Grade Community spirit.
- -- 4th Grade Community relationships.
- -- 5th Grade
 U. S. history: assimilating people that are different (language, race, religion, nationality, customs).
- -- 6th, Grade
 Concern for others: social work, foreign aid.

-- Junior High

Community attitudes: handicapped, unfortunate, poor, orphaned, strangers, homicide/genocide; distribution of resources.

-- High School

Dehumanization: causes, indicators in the community, overcoming it.

Humanism.

Four freedoms in America today. How can they be achieved?



5. AIDS TO CURRICULUM DEVELOPMENT FOR THE MAN AND HIS WORLD MODEL

During the first week of the Workshop, several aids were given to the participants to help them in forming their ideas of a humanistic curriculum and in actually developing curriculum units. Although about a dozen aids* in all were present, the five major ones are included in this section. All of them except the Pittsburgh Model were developed by the General Learning team in the course of the Workshop.

5.1 Working Definitions

A humanistic approach to learning presents the traditional body of knowledge in an interdisciplinary curriculum in order to encourage a constant personal appraisal and re-appraisal based on affective responses, reasoning, attitudes, behavior, and the evaluation of experience in terms of oneself and one's interactions with others and the environment.

The Project Search Consortium built into the design of the program an emphasis on the following considerations which it considers essential in human-izing the curriculum:

- Reasoning -- Reasoning uses intellectual abilities to collect and organize bodies of knowledge in order to analyze and synthesize data by induction or discovery, by deduction or conclusion, by inference or connotation and by the personal process of intuition.
- Valuing -- By this process a person makes use of knowledge to
 make choices and identify alternative behaviors and their consequences in order to arrive at satisfying decisions in pursuit of

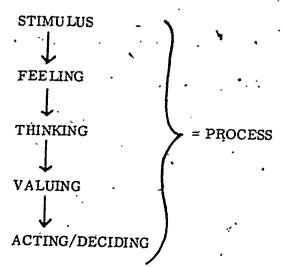
^{*} Other approaches were an Historical-Sociological model; Experiential model; Relevance model; Intense Interest model, Interdisciplinary approach; Contemporary Social Issues approach; Impact of Science and Technology model; How things Work approach; Learning Activity Package format.



the things he prizes most. Since development is a continuous thing, these choices are constantly re-evaluated in light of new knowledge and experience.

- Affective Development -- In this process, a person's inner feelings are the key to the development of interests, attitudes, and appreciations which motivate and determine his behavior. In learning, experiences of success and failure are basic sources of affect.
- Processing -- By this means all knowledge, feelings, and values become translated into behavior. The skills which this requires are the ability to interpret incoming data, extrapolate the meaningful information and generalize from the situation at hand to other comparable situations. This skill also includes the coordination of kinetic responses in creative forms. By processing, the artist and the scientist develop the ability to go beyond the facts and create new configurations and new perceptions of reality.

5.2 Stimulus/Feeling/Thinking/Valuing/Acting Procedure



As we <u>feel</u> and <u>think</u>, we apply <u>values</u>. The feeling/thinking/valuing process leads us to <u>decisions</u> and suggests appropriate <u>actions</u> we could take.

An example of the S/F/T/V/A model as applied to an intermediate level assignment on the topic of ecology:

Stimulus

1. Find and bring to class as many newspaper and magazine articles as you can that suggest man is manipulating the environment.

Feeling

2. Select an article that makes you angry.

Thinking

3. Divide into teams (Share the article with the other team members by reading it aloud or by giving a short account of its content.)

· Team 1: Defend and support what is happening in the story.

(Make a list of your points.)

Team 2: Attack what is happening in the story. (Make a list of your points.)

Valuing

4. Draw the teams together and discuss what values you apply and state which side of the issue you are on and why.

Acting/ - Deciding

5. Propose a solution to the conflict. (It is possible that if values are too opposing, no decision can be reached -- but that, too, would be a valuable learning experience.)

A second example of the S/F/T/V/A model as applied to a primary level assignment on the topic of ecology:

Stimulus

1. Visit the garbage dump. Find out where garbage comes from.

Feeling

2. Draw a picture of the dump. Think of one word that tells how you feel about the garbage dump. Write that word on the picture.

Display the pictures and discuss them.

155

Thinking/ Valuing 3. Talk about why we have so much garbage. Could we ever have no garbage at ail? Can we control how much garbage there is?

Introduce the word and concept: RECYCLE. Discuss. Why aren't more products recycled? (cost, time, work, lack of awareness or concern, appearance, etc.)

Acting/ Deciding

- 4. Go to the store (alone or as a class). Ask the salesman to show you something that you can recycle, something that will not make garbage (or visit a recycling plant and do the same).
- 5. Make advertising posters for one of the recyclable types of products. Display in school so others can know about it (or let the children choose a different project).

In response to the above S/F/T/V/A procedure, the Workshop particip at the designed activities around a topic using this approach. Two of the group responses are included in this report on the following pages.



SAMPLE LESSON DEVILOPMENT

IEVIL: 1st Grade

STRAID: Physical Environment

TOPIC: Wood

STITULUS:

Teacher provides varied samples of wood of various textures, weights, sizes. She encourages the children to explore, sensorally, these pieces and they talk about how the different pieces feel, smell—they talk about how heavy or light, large or small the pieces are. They notice the sounds of the pieces if they are dropped, hit, hit together... They then think about how they could make things out of the pieces and use them.

FEELING:

Children now use these bits of wood to accompany themselves in singing, dancing, creating new rhythms. The teacher asks them how the rhythms make them feel— "How would you dance to that rhythm? Would you feel hamp?" Sad? Like you want to fight? Like you like everybody? Like you have to jump up and run around?" "To you like the music better when you helped to make it with the wood?"

From this activity, the teacher can move the children into a construction projer... "Do you remember what things we said we would like to make with the wood?" The teacher has ready a number of simple tools and more wood and guides the children through the decision-making process and helps them get started on their building projects.

When the children have completed their projects, they hold an improved exhibit to armire and talk about what they have done and the teacher poses the questions. "Do you have any special feeling about the thing you've made? Does it make you feel good because you made it?" etc. "Did you like to work with wood?" "To you know where the wood comes from? Is there so much wood in the world that we could never run out of it?"

ACTING/
DECIDING:

From the answers the children develop there are in-roads into the importance of forests; because they are pratty, fun to be in, they provide homes for animals, they provide oxygen also.

Trips could be planned to visit a forest range, a lumber came, a lumber yard. The transportation of the lumber in all its forms could be studied. Visits could be made to a hore-huilding site. Children could be asked to ask their parents to help them make a list of all the things in their own homes that are wood and invited to bring to school their favorite thing made of wood (that they can carry). The class can also make a list of all the wooden objects in their own classroom.

"With all these things being made of wood, would you say that wool is important to us? Is it important because animals live in the trees? Do trees ever give us some— to eat? Then do you think somebody has to take care of the trees? Who?"

Children can be shown samples of paper in which the wood pulp is visi.hle and proceed to a learning unit on the paper industry. They can be
shown and use pieces of it while learning about conservation, recycling,
reforestation, job of forest rangers, how long it takes a tree to grow.

APPRECIATION/ CREATIVITY:

Tall tales

Folk tales

Stories (Pinnocchio)

Puppets Wooden toys Films.

Pecordings (Children might want

to tape the sounds of a saw mill, lumberyard, construction site, trucks, etc, to play as accompaniment

to pictures of these activities which they have made.)

Records

Wooden instrument

Band

Indian uses of Trees Wood and Play Wood and Beauty

Forest Fires

.Preservation

Animal Homes

Trees and Oxygen

Fruit & Nut Trees

Trees as Protectors

Cost (pencils, paper)

Mooden instruments

Construction projects

blocks, wood shavings,

Religious images and arti-

(with tongue depressors,

popsicle sticks, assorted

tooth picks, emery boards.)

Wooden masks

Object d'Art

SOCIAL STUDIES:

Climate vs. Trees Geography vs. Trees Wood into Homes (people & animals). Trees as Food Source

Occupations

Trees and Enjoyment

Uses of Bark

SCIENCE:

MATH:

. Kinds of Trees Planting Care of Trees Insects vs. Trees Man vs. Trees Leaf Collecting

& Mounting

Counting & Grouping

Measuring

Age (Growth Rings of

Tree)

Comparisons of Yore & Less; Tall & Short . How many boards one'

tree makes

LANGUAGE ARTS:

Word recognition **listening**

Vocal expression

Writing Stories

Poems

Shapes

Speaking in sentences Class newspaper recording class activities & visits to lumber mill, etc.

Describing

158

144

LEVEL: 9th Grade

CONCEPT: Man in His Physical Environment

SUBJECT: Land Use and Revitalization

Present a number of pictures of a wilderness area, a National STIMULUS:

Park, and a recreational community; include as many pictures of

land use as possible.

Present a newspaper article concerning the application of New FEELING:

Horizons, a land development organization, to create a recreational

community within the boundaries of the Mirondack Preserve.

BACK-

At the present time, a group of citizens appointed by the Governor, GROUND:

has been given the mandate to determine the future of the stateowned public forest areas. There is such controversy concerning the use of land within the Adirondack Park as provisions have been previously made designating certain "wilderness areas." These areas were to remain free of commercial development and up to the present

time were covered by laws of the state.

Student makes his choice as to whether he feels the land should be THINKING: open to commercial development or retained under the "Forever Wild"

provisions of the state law concerning the Adirondack Preserve.

Independent Activity: Divide into groups:

a. Group supporting land development

b. Group defending "Forever Wild" provision

REASONING:

Check resources concerning this topic. Use factual presentation of "New Horizons" including their plan to protect ecological balance. Use resource material from the New York State Department of Conser-

vation.

VALUING:

What right have purchasers to land they buy?

What responsibilities have the developers to the land they buy? What are the rights and responsibilities of the people acu residing in the area of the projected recreation community? Can they demand that the development group protect the environment? Do they also have a right to expect an increase in business and thus a rise in prosperity of the area due to the new development? If so, what influence will this have upon their feelings con-

cerning the new community?

Do all residents of the state have the right to decide the use of

state land?

If the developers can show they are protecting the environment and perhaps enriching the ecological balance (lumbering areas), should

they then be permitted to develop?

How many special interest groups are interested in the Mirondack Preserve, (e.g. snowmobilers) and if all have an equal right to land use, what will be the effect on the ecological balance? The land at the present belongs to the people of the state of New York. What are the rights of future generations to this land? 159

Discussion or Debate

ACTING:

Evaluate positions. Are there alternate solutions to the problem?

DECIDING:

Are feelings the same after the discussion as previous to it. Have some positions changed? If so, why?

INTERDISC-IPLINARY APPROACH:

Language activities as well as social studies, science and art activities can be incorporated into this. In the cognitive domain material has been researched, organized, analyzed and synthesized.

In the area of language, material has been presented. In the area of social studies practicing democratic and social living—decision making process concerning the use of land.

Science; Population increase result in more demand upon resources

of the earth

Art: Models can be made, dioramas.

Materials: Films:

Bulldozed America
Conscrving a Heritage
Forest Conservation
Han Uses and Changes the Land
The Changing Forest
Senso of Wonder

Publications from: -

American Association for Health, Physical Education and Recreation

Project Man's Environment &

Council on Outdoor Education and Camping

Pub. from N.Y.S. Outdoor Education Association



-5.-3 Questioning Grid

Although not a "grid" in the normal meaning of the term, we have called the following by that name because it can be transposed gridlike onto any issue, thus getting at valuing, reasoning, affective development, and processing or adjustment.

VALUING

What value considerations are inherent in this topic?

Which are of an ethical or moral nature?

What is the range of possible reactions to this issue? (List or rank the alternative attitudes according to the range -- reactionary, conservative, liberal, revolutionary, as one possibility.)

What do you feel would be the dominant reaction of your city? your community to this issue?

What is your own value choice in respect to the above issue. Substantiate with reasons.

What are the sources of the values you have stated? Where did you get them? (Friends, community, church, personal judgment)

REASONING

What resources-contain information about this topic?

How will these resources be used? How will information be disseminated?

Inductive: What facts can be assembled to define the topic?

How can we become more aware of the problem?

Can you trace the causes and effects of this problem or issue?

Compare and contrast incidences of this issue.

Deductive: What general principles apply to this issue?

Can you make a physical model of this problem or issue?

Can you make a symbolic model of this problem or issue?

Is this topic or issue a result of certain natural laws?

<u>Inferential:</u> What sub-problems can be inferred from the facts of this topic?

What interrelationships (what interdisciplinary approaches) lend themselves to this topic?

What are the components of this topic? Can they be put together to yield new information?

Evaluation: What type of evaluation will measure the achievement of the goals of this educational unit or measure the acquisition of "learning" about the topic?

What kind of reports could be used to evaluate? What kind of exam is most appropriate?

Is a field experience or laboratory experience necessary in relation to study of the topic and evaluation of understanding?

Is the information used as the base of the evaluation fact or opinion? At what times is fact relevant? At what times is opinion germane?

AFFECTIVE DEVELOPMENT

How does presentation of this topic affect the student's feelings of loyalty to country, family, church? How does it affect his relationships with his peers?

Does this topic raise compassion, aggression, fear, hope, timidity, confidence, etc. in the student? How will this emotional energy be channeled in the classroom?

What appreciations derive from this topic? How are they evidenced? (Appreciations might include recognition of the value of nature, of the individual, of community service; an historical appreciation of causes and effects, background or potential of the issue, etc.)

Does this topic lead the student to recognize the nature of the craft or skills necessary to deal with the issue?

PROCESSING OR ADJUSTMENT

How does this topic help you come to terms with your life style or is it at odds with your beliefs?



How can the student be helped in the process of coming to terms with this problem or issue? What community resources are available?

What alternatives are available?

Are adjustment aspects different with different groups? (peers, family, school personnel, religious?)

Is this the kind of topic for which adjustment is the desired response?

Does the student understand consequences and implications of this problem and of the choices available to him?

Action: Does the study of this topic encourage the student (or teacher) to join a particular action group?

Does this topic affect his hobbies? Or encourage him to develop one?

Does this study affect physical and manual skills?

Does it help create a willingness to take on the chores of doing a good job and doing it right?

What does "following your conscience" mean in terms of activities related to this topic?

In what ways has the study of this topic changed my attitudes, beliefs, hobbies, habits, knowledge of facts, and resources?

5.4 Pittsburgh Model

The Pittsburgh Model is especially useful in developing an interdisciplinary approach to learning. The two examples which follow show how various issues lend themselves to sub-division into the five clusters.



PITTS BURGII Mode

Case A

Man and Technology Concept:

Regulation of atomic energy. Subject:

To assist the student in developing and clarifying his ethical: Purpose.

values and to develop understanding and awareness of the interaction

of man and technology.

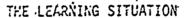
Humanistic-Ethical

Discussion Decision to use the A-bomb

History Struggle for civilian controlthe Atomic Energy Commission Impasse in the United Nations Era of unrestricted testing Question of human survival

II. Scientific-Quantitative

Atomic Structure Nuclear Reactions Nature of Radioactivity Destructive Capacity of Nuclear Energy



Creative-Aesthetic III.

Literature of the

atomic age - - ' John Hersey, Hiroshima Norman Cousins; Modern Man Is Obsolete

Nevil Snuce, On the Beach

F11ms Dr. Strangelove. Fail-Safe Hiroshima, Mon Amour On the Beach

Vocational-Utilitarian

Radio isotope therapist Muclear physicist Atomic Energy Commission Utility company engineer

. V. Physical-Kinesthetic

Construction of Model Muclear Reactor Desection and Measurament of Radioactivity

 $164 ext{ } \cdot$

Case 3

Concept: Mar and the Creative Arts

Subject: The music of black and white.

Purpose: To develop and clarify the student's aesthetic values through

understanding and awareness of the creative arts; to explore the common heritage of European folk music and African tribal music; to trace the spread of African music's influence via the New Orleans melting pot to the rest of the world; and to show how a wital fall music find eventual expression in and metamorphosis

vital folk music finds eventual expression in and metamorphosis

into art music.

I. Humanistic-Ethical

What makes music American?
Film - "Nothing But a Man"
Effects of place, time and
atmosphere on music of
Ethical themes represented in
musical selections

III. Scientific-Quantitative

Economic impact of jazz
music
Influence of economic-social
structure on musical form
Impact of electronics on rock
music

THE LEARNING SITUATION

II. Creative-Aesthetic

Music of BeethovenSymphony No. 6
Proyement III
Gershwin - Rhapsody in Blue
Copland - Hoe Down, from Rodeo
Ives - Putnam's Camp
Ellington - The Golden Broom
and the Green Apple
Still - Afro-American Symphony
Kay - Brief Elegy
Walter - Glory, from Requiem
for Brother Martin
Soul Music - James Brown
Aretha Franklin
Rock and other current music

IV. <u>Vocational-Utilitarian</u>

Symphonic Organizations
Jazz Groups
Discussion of what skills
necessary to perform
jazz music
Musical careers
Uses made of this Music

V. Physical - Kinesthefic

Modern dance
Jazz dance
Student involvement in:
ethnic and cultural dances of
Blacks and Whites
Singing

151

165



5.5 A Checklist of LEARNING TECHNIQUES, ACTIVITIES, EXERCISES, AND EXPERIENCES

This list is meant to be suggestive rather than exhaustive. The techniques suggested range all the way from passive to full involvement. They are meant to jar your mind to think of a variety of creative, relevant activities for each specific need.

Not all activities are applicable on all age levels or for all purposes.

Some are more appropriate in imparting factual information, others for changing attitudes and making value considerations, still others for developing skills.

Explanations are given only for those items which are not self explan-

In some cases, the entries on this list represent actual pieces of audiovisual equipment. This has been done whenever those media are strong enough to leave the imprint of their style on the activity in such a way as to almost mold it into a learning experience distinct in nature from all others.

Independent Study

Reading and Research Assignments (from Syllabus or Study Guide)

Literature Search

Programmed Instruction Workbooks

Audio-Visual Programmed Instruction Systems -- Multi-Media

Packaged Self-Instructional Systems (Synchronized Audio-Visual

Component)

One of the relatively recent developments on the multi-media scene is a combination unit which provides synchronized movie, slide, sound, and self-instructional (programmed instruction) scoring

capabilities. A less glamorous but effective substitute can be obtained by manually synchronizing a slide magazine with a cassette tape recorder.

Dial-Access Information Retrieval System

This is an expensive but very efficient means of gaining almost immediate computerized access thibrary and multi-media resource materials on any topic.

- Teaching Machines (Computer-Assisted Learning)
- Learning Activity Packages

These are separately packaged units prepared for individualized learning. They generally contain pre-arranged activities in this sequence:

- 1. Passive exercises (read, listen, watch)
- 2. Active exercises (experiment, produce, group activities)
- 3. Synthesis (summarize, report, answer)
- 4. Self-test (which the student may take <u>prior</u> to any of the activities, as a pre-test, if he feels he already knows the material)
- Information-Collecting Assignments (Combining Interviews, Research, etc.)
- Small Group Discussions

A group should be led by a "facilitator" rather than a group leader, i.e., someone who facilitates group participation instead of imposing his views on the group or making them dependent upon his leadership.
"D" Groups

"D" (for "developmental") groups are purposely leaderless groups where leadership is allowed to emerge naturally from within the group.

It is essential that such groups be given an agenda and assigned specific tasks for each meeting.

Question and Answer Sections (Interrogating an Expert -- Ad hoc

-- Systematic)

In addition to the normal questioning of students with which every teacher is familiar, students can benefit from a chance to turn the tables and question experts (local citizens or teachers). This questioning can be:

- 1. Ad hoc anyone asking questions as he happens to think of them
- 2. Systematic by the students planning and organizing their questions and strategies beforehand.
- Live Lectures: Lecturettes (Mini-Lectures)

Lecturing is the most overused teaching technique, and if tests are any indication of what is learned, it is also one of the least effective, depending heavily on the liveliness and charisma of the lecturer. By calling them "lecturettes" or "mini-lectures," the point is made that "talking to" sessions should never exceed 10 or 15 minutes (even when addressing adults) without interspersing other activities in between.

Illustrated Presentations (Using Slides, Overhead Transparencies, Opaque Projections, Flip Charts, Models, etc.)

In such presentations, the oral material should be structured so it is primary and could even stand alone if necessary. In other words, the slides should not be meant to carry the delivery, each slide simply reminding the speaker of a comment related to that slide but not necessarily to the whole presentation.



- Flip Charts
- Flannel Boards; Magnetic Boards
- Note Taking
- Outlining
- Reviews/Critical Appraisals

After criteria for excellence have been established and studied, a student is equipped to make a critical evaluation of a book, a poem, a painting, a building, a musical or dramatic presentation, or even a plan for some project, approach, or solution to a particular problem or social issue.

- Development of Questionnaires
- Development of Test Items for Peers
- Practicing
- Text Books; Manuals
- Course "Ponies" (e.g., "College Outline Series")
- Flashcards
 - Workbooks
- Mimeographed Handouts
- Pamphlets; Brochures
- Vertical File 🔑

A vertical file is a collection of file folders containing short articles, pamphlets, brochures, etc., on alphabetically arranged topics, to which the student has free access.

Drills; Tests; Quizzes.

Open-Book Exams

Hardly an "examination" in the traditional use of the word, an open-book exam is really an excellent study technique and an opportunity for the student to dig out materials in response to structured questions.

Multiple Group Presentations

The student body is divided into 3 (or multiples of 3) smaller groups, and each group develops the same topic in one of the following ways:

- 1. Visual (or graphic) presentation
- 2. Panel discussion or debate
- 3. Spontaneous role play or planned skit
- Videotaping (VTR/Videotape Recorder) and Instant Replay Critiques

 The VTR provides relatively inexpensive (since tapes can be reused)

 movie-making capabilities within the classroom. A child's or a

 group's presentation can be recorded and played back immediately

 for study and critique.
- Videotape-Using Pre-Filmed Units

 Short instructional units can be made on the VTR and stored for future replay,
- Television Programs (ETV, Commercial, or Closed-Circuit Programming)
- Audiotape Cassettes; Phonograph Records
- Microfiche
- Films



Single-Concept Films ("Loops")

These are short (about 10 minute) instructional films produced in an endless and continuous loop (hence the name) and contained in a cassette. A child can play any loop over and over again in order to master the single skill or concept it contains.

- Slides/Filmstrips
- Film Making as a Training Technique

Films made by the students provide another medium to present facts, opinions, and interpretations. The VTR is excellent for this, since it is economical and requires no additional photographic processing expense.

- Polaroid Camera as a Training Technique

 Still shots, immediately available, can also be used by a student to present his impressions of his community. They tell their own story, or they may be used as the springboard for a written story he might prepare to accompany them.
- Opaque Projector
- Overhead Projector
- Field Trips; Tours
- Field Assignments
- Community Analysis

Using either already developed information-gathering instruments or ones which the students have devised, the students then collect and analyze information on their community (population density, natural resources, ethnic groups, occupation and labor force structure,

manufacturing, public utilities, recreational facilities, power structure, etc.).

- Lab Work; Experiments
- Workshops
- Seminars
- · Critiques
- Group Tasks
- Peer Teaching
- "Sibling" Teaching

Whereas peer teaching refers to peers teaching each other, sibling teaching indicates that older students are teaching younger ones.

. Relay Teaching

If many students are to be taught a specific skill, a small cadre can be taught, tested, and certified. They then, in turn, each teach five or ten more who teach others, ad infinitum.

- Practice Teaching
- Apprenticeships/On-the-Job Training
- Micro-Teaching

Micro-teaching is so named because of the very small task or sub-task which is concentrated on in order to facilitate its learning. The student performs this task while the teacher observes, then the teacher critiques and immediately the student is given another chance to present the same material. Other students may function as observers or they, may serve as students if the performing student is teaching them the particular skill.

- Tutorials
- Dyadic Interchange

Two students take turns teaching each other in a dyadic interchange.

They might teach each other different topics or different aspects of the same topic, after researching and preparing their separate presentations.

Team Teaching

Real team teaching is more than "turn teaching" in that each component of the team adds more to the total impact than the mere sum of the parts.

"Co-Teaching Conversation"

In a co-teaching conversation, two experts on a particular subject (local residents or fellow teachers) first meet to agree on a skeleton outline as a structure for their presentation, but not on what they are going to say. Then, in front of the students, they converse freely, letting their differences of opinion be known and responding to the other person's comments. The outline provides a mechanism to keep the conversation on target but it is not detailed enough to stifle spontaneity.

Case Studies

Case studies require careful preparation to be effective for, while hypothetical, they must be convincingly plausible. If they are openended, they provide students a chance to decide how they would handle the situation and the consequences of the various solutions suggested.

Critical Incidents

Similar to gasg studies (the names are often used interchangeably)

"vritical incidents" refer here to using live crisis situations which develop within the group in an attempt to reach resolution.

In-Basket Technique

Each student simultaneously is given the chance to role play himself as a businessman responding to the letters and memos in his in-basket -- many of which cause him to make ethical-moral decisions. This is followed by a discussion of the implications. (For a set of such letters, see J. Wm. Pfeiffer and John E. Jones: A Handbook of Structured Experiences for Human Relations Training, Vol. II, p. 44 ff., University Associates Press, Iowa City, Iowa.)

Problem-Solving Scenario Technique

This is similar to a case study, but a very involved case study. It is meant to be used over an extended period of time (one or two weeks), and students are expected to analyze the problems carefully, plan a strategy, and attempt systematically to research a solution which the group can agree upon. Possible solutions can be role played as necessary. As the activity progresses, new data are fed into the group periodically.

Force-Field Analysis (Thrust/Counter-Thrust Technique)

This is a fancy name for a very simple process which is useful in problem solving. Two lists are made, one listing all the "factors' for" and the other, all the "factors against" any issue in question.

(An important point to remember is that problem situations can often be resolved more effectively by striving to reduce the forces against rather than by increasing the forces for.)

"Veterans" Panels

"Veteran" is here used to imply anyone who has himself gone through any situation about which the students are currently studying.

Panel Discussions-

Debates

Seeking Consensus Within a Group

The task assigned to a small group is to discuss a certain controversial issue and reach consensus on it. Consensus implies agreement without vote-taking, and it is a good way to stimulate discussion.

Later, the decisions reached must be defended by the group.

Agree-Disagree Statements

A list of true-false type statements is given to a group; the group is asked to respond, first of all <u>individually</u> to the statements, indicating whether they agree or disagree with the sentences as stated. Then, as a group, they are to tally responses and change the statements in any way so that the majority of the group can agree. (They may not simply agree to disagree with the statement.)

Delphi Technique

The Delphi technique is similar to the agree-disagree technique mentioned above, but instead of simply agreeing or disagreeing they are asked to indicate when they think the statement will be true in their city (now/2years/5 years/10 years/25 years/50 years/never).

Role Playing (Simulation)

Role play may arise spontaneously, on-the-spot, at the suggestion of a teacher who says, "Let's vole play that situation and see how it

might turn out." It may also be planned ahead of time with carefully prepared scripts (known only to each participant) which deline: the individual roles and build the characters the students are expected to become. The rest of the group watch the performance and participate in the critique which follows.

Large (Whole) Group Role Play

Role play generally involves only two or three people, acting out their situation before the rest of the class, but the whole class can be involved in role play scenarios which divide the total group into two or three interacting groups. Much more fluid in nature, such enactments may move from two to one to multiple sub-groupings and back and forth again. (Contact Robert Kohls, General Learning Corporation, for sample scenarios for a whole group role play.)

Community Simulation

A community simulation is like a large group role play in that it involves all the class, but each is on his own as he interacts, in turn, to several staff members playing their roles as various key community figures.

- Skit Development and Presentation
- Puppets
- Live Demonstrations
- Direct-Manipulation Laboratories

Costly to produce, these laboratory setups allow individuals to manipulate the tools of their own learning situation and to see the results immediately.

Electric Boards

These are pre-planned boards which light up with the correct responses after the participant has had a chance to indicate his own answers.

Models

Students may build their own models which may be used later in teaching other students. A globe is a model we are all familiar with -- a model of the world.

- Planning Graphic Representation of Ideas or Concepts, Charts

 Planning symbolic representations of a thesis or a process helps us

 visualize that process better.
- Displays; Bulletin Boards
- Group Newspaper Project
- Product Manufacture and Distribution Project
 To engage students in all the steps necessary to plan, produce, and distribute a product for sale is a very involving educational experience.
 - Learning Games

There are available on the market now a large number of commercial games which have strong educational application (e.g., Ghetto, Black and White, Generation Gap, Man and Woman, Crisis, Body Talk, etc.)

Other games, closely resembling simulations, require no commercial props. (See Clark Abt: Serious Games, Viking Press.)

Structured Group Activities

This refers to exercises of short duration which are aimed at very specific objectives (e.g., problem solving, smoother functioning within the group, etc. (See Howard Lewis and Harold Streitfeld: Growth

Games, Harcourt, Brace, Jovanovich and several publications available from University Associates Press, Iowa City, Iowa.)

Brainstorming

Brainstorming is a process used to generate a volley of creative ideas in a very short time. The only rule is that during the time you are getting the ideas out there should be no negative reinforcement of any kind. Ideas should be encouraged to be as fantastic and impractical as possible, since they will spark other creative ideas. Later, the ideas can be reworked and made practical:

"Fishbowl" Meetings

This technique is called "fishbowling" because one group sits in the middle of the room and has a meeting or a discussion while the others ring their chairs around the group and observe the process. After a certain time, the meeting <u>may</u> be opened up for observations or questions from the observers.

Group-on-Group Meetings

This is similar to the fishbowl technique except that the group is divided exactly in half and one group holds its meeting in the inner ring while the other half lines up one-on-one, each observing the behavior and contributions of a single participant with whom he has been paired — in order to give that person helpful feedback about his style later. The groups then reverse positions and roles.

Charette

This is a process by which a model or plan is explained to the public, then the public is asked to critique the plan (usually one which serves

the public as, e.g., plans for a new school building) in order to participate in the discussions. The teacher in a classroom can adapt this procedure with the students serving as public citizens reacting to the material being presented by the teacher.

· Modified T Groups

Most classroom teachers are not equipped to run bona fide T-groups. but they are equipped to help the group focus, occasionally, on the process and on individual reactions and feelings to what is happening within the group instead of only being aware of the content being discussed.

"Live-Ins" (with Ghetto Families, etc.)

There is no better way for middle class white students to learn what it is like to live in the ghetto than for them to actually live for a week or more with a ghetto family.

Life-Planning Exercises

These are structured instruments designed to help a person evaluate his past achievements and build his future goals. (See materials developed by Bernard Haldane Associates, Washington, D. C.)

Feedback Sessions

These are sessions when individual students are given both positive and negative feedback concerning their actions — but always in a supportive, concerned atmosphere — from fellow students and from the teacher.

Emphasis must be centered on specific events and on the reactions of

Emphasis has be centered on specific events and on the reactions of

the group members to those events.

172

"Third Culture" Experience

A third culture experience is one that is totally different from the student's own past experience, yet one which is also different from the experience for which you eventually want to prepare the student.

For example, if I want to prepare someone to live and work in South America, I might train him in Puerto Rico or even in Spanish Harlem. In this sense, letting a small child sell lemonade is preparing him to become a businessman.

Language Experience Technique

This technique is specifically geared to helping a student who is having trouble learning to read. The theory behind it is that if the child can talk he can tell a story out of his experience; that story can be written down (by someone else, — in <u>cxactly</u> the ungrammatical way he tells it). He can then learn to read his own story and, later, the similar stories of his peers. Eventually, he will be able to graduate to other written material.

Student-Decided Approaches to the Study of a Particular Topic

Sometimes the students, in small groups, might be asked to plan their own learning experience from beginning to end -- including topics, objectives, activities, approaches, outcomes, and evaluation.

Projects Based on Local Ephemera

Newspapers, telephone books, TV guides, mail order catalogs, and such readily available material can be used to develop practical learning experiences. For example, a Sears Roebuck catalog can be used as a reference source for a child to complete the replacement

value of the furniture and furnishings in his own room. .

Use of the Community as a Major Learning Resource.

This implies more than simply taking an occasional tour of a newspaper plant or a local dairy. It implies delving much more deeply into these and other resources to learn all one can from them (See Yellow Pages of Learning Resources, Richard Wurman, editor, MIT Press, prepared in connection with the 1972 International Design Conference, Aspen, Colorado.)

6. PROCEDURE FOR DEVELOPING UNITS FOR EACH STRAND OF THE MODEL

The format which follows was prepared originally to present two examples -one on the first grade level and one on the eleventh -- as guides for the teachers in
the Workshop, to prepare them to develop their own units on their particular grade
level. The eleventh grade example is included in this report.

Due to the "push" to produce a large number of units within a short time, an unexpected benefit came out of the Workshop. In order to increase production, it became accessary for teachers to develop some units individually, and then to submit them to their group for further elaboration. As a result, the Workshop participants gain, d the facility to develop units independently, thereby greatly increasing their future potential to develop larger numbers of units.

Although at first glance the format seems highly structured, it was found to allow an amazing amount of freedom to be creative, especially in the "Concepts" and Activities" sections. Further, the format is such that it provides a wealth of ideas which the classroom teacher can use to develop his or her own lesson plans. It is not intended as a rigid dictum but, rather, as a source of abundant, raw material from which to draw and choose.

A point made in the Workshop was that the columns "Affective Questions."

"Value Questions," and "Interdisciplinary Approaches," are of particular importance in developing a humanistic curriculum. These represent the heart of the way in which this curriculum is both unique and humanistic.

9 183	i
ERIC	,
Full Text Provided by ERIC	

	•			•	
Resources and Matérials	Cognitive Skills Individual/Group	Sensory Psycho- motor Skills	Affective Value Quest	lons	Methods of Evaluation .
Books:					
The Octopus: The Jungle.	To analyze	To learn the	Picture a world	Is what's	Research
Br Kyton Sinclair	rolationship	workings of	without machines.	good for	buber on
	between elements	given machines.	How would it differ?	General Motors	aspect of
Bravé New World. By	of society and the		Write a poem, song	good for the .	mechant-
Aldous Huxley	whole.	? To learn how	story or paint a	country?	ration.
1984 By G. Owell	•	to use given	picture about this	•	•
	To project into	machines (office	world.	What do muchinos	Team task-
Walden II. By B. F. Skinner	the future in a	or otherwise)		mean for our	torees ex-
	prodictive	and/or build	Should women work?	ecology? What	ឧបាវិធារាជ្រ
LOOKING BROKWAITA BY	scientific manner.	a machine.	•	is the respond	industriali-
r. Bellamy			Which machines do	sibility of elti-	zation in
Toward the Year 2000.	To learn tho	•	you consider indis-	zens and of	Utlen to
By Herman Kahn et al.	history of the		pongable? Why?	Industry?	report
The Myth of the Machine, By	"Industrial"		•		(છે ત્રીગ્રુક
Lew is Munitorid and other books	Revolution. ".	•	What is officiency?	18 industry	•
by L. Mumford and Jangalgeobs				necessary for	Write a com-
Carrier I of the Human I carrier		•	Does society really	progress?	patter program
Belowe Dr. Wolson	•).	nood an electric can-	•	on things a
beings, by weller.	•		opener? Is American	In what ways	computer.
Films:	•	•	gadgötry ysofiil or	dočs industry	littigun,re.
. Modern Times. By C. Chaplin			wastoful?	control the	•
				climate of a	Leurn how the
annidatut T			,	lown?	inside of any
Have I Told You Lately That I			· · · · · · · · · · · · · · · · · · ·	•	muchine of.
Love You?			-	-	your choice
-			•		works (radio,
Chamber of Commerce &					TV, car,
Kiwanis		•		•	watch). In .
Bolish Notion'te Boponte	•	.•		-	an oral presen-
Charles a samue milimit	•			•	tation explain il
		<i>₫</i>	-	- -	operation and
Towns for Englands 7/1 - Children contracts				4	function.

Teacher feedback: 7/1 - Students enger to have a chance to talk about deportsonalization. Vot soveral of them thinking of working with the computer as a career. Hard for them to reconcile the two.

7.4 Tack crees studying Utica industry have begun to read Ralph Nader's report on Nursing Homes. They are interested in his r. Thoi and approach, some wondering how "scientifie" he really is. We had a math presentation today by Mr. Jones about the

	Topic	Concepts	. Age or Grade	Nims .	Activitios	Interdiscipling
•		% Issues	Level		N Projects	anano.iddw

Man and Dehumanization
Machines Technology as a force in our culture.

Machines as extension of man.

McLuhan's idea of end of machine age with electricity leading us to "global village."

The risport cities as a logical extension of muchino ago.

Peter Gordmark's iden of the new rural revival through electronie "Built-in" obsolescence

To discuss machino as a dominant force in modern life.

To see If technology has produced counter forces in sectory.

To nascration-ship of the marting development to pro-gross.

To consider whether machine-produced uniformity and standardization has affected the culture and mores of American society.

Chass makes a count of how many "aumbers" are their own— (crodit card, driver's license, special scently, address, zip code, phone #). Some humbers are shared, some individual. Why is this necessary for societa organization?

Class visits 113M office.

Class teams, cheek out Industrialization in Uriea. How long have these industries been here? Are they "20th Century" industries? What would encourage new industry in Utiea?

Class explores difference between tadustrial production and a craft, Each and kes a pot or builds. something. What is the difference between.

Appronches

Visit and partidipate in
industrial arts
shop (boys and
girls)

Time Allotinent

Social studies -disense the
economics of
machines in qur
oulture -- labor
unions, space
contracts, for
example.

Art -- study of works of Loger and Italian Futurists.

Music— Introduke Webern Berg, Boulez, Jojn Cago,

Physics -discussion of mechanics. Muthuse percentage .
graphs, statistics,
probability to investigate industry.

Working Definitions

- "Model" -- Refers to our Man and His World Model
- "Strand" -- Refers to the ten parts of our Model. In the Summer 1972 Workshop we developed the strand Man in His Physical Environment.
- "Subdivisions of the Strand" -- Man and His Physical Environment presently has six major subdivisions: Man's Expanding Horizens; Spatial-Temporal Orientation; Natural Phenomena; Taming the Environment; Survival of the Universe: Ecology: Philosophical Concepts of the Universe." Those, in turn, are further divided.
- "Topic" -- A broad, general field of consideration which provides the material from which to build a curriculum unit (e.g., "Man and the Machine," "Tools, etc.).
- "Concept or Issue" -- An abstract notion which breaks down or combines elements, and is related to a larger idea or topic.
- "Subject"-- This refers to the traditional subject matter der gnations of the curriculum (e.g., math, English, science, social studies, music, etc.). (The term has no immediate application to our Model but is presented here because it is often a source of confusion.)
- "Activities" -- Represent exercises of a day's duration:
- "Projects" -- Implies longer term exercises.
- "Resources" are of three types: community facilities; printed resources (books); and multi-media.
- "Materials" -- Implies the physical supplies and equipment required to carry out ... the activities.
- "Cognitive Skills" -- Refers to the factual (or "know-how") knowledge covered in the unit. (These are often different in intent for individual projects and for group projects.)
- "Affective Questions" -- Are questions which get at feelings, attitudes, interests, appreciation, and behavior change.

- "Valuing Questions" -- Can be directed toward determining a stelent's personal values and also toward helping him sort out possible alternatives in the choices of others.
- "Sensory-Psychomotor Skills" -- Refers to the development of the five senses and to coordination of body movements.
- "Methods of Evaluation" Should vary according to the aims and whether factual knowledge, attitudes, or skills are being taught and tested.
- "Teacher Feedback" -- This section is left blank for the classroom teacher using ... the unit to record references to his or her experiences as a reminder for future use.

7. UNITS BY GRADE LEVELS FOR THE STRAND: MAN IN HIS PHYSICAL ENVIRONMENT

The Utica Summer Workshop for Project Search has as its chief goal, in addition to the creation of the model itself, the development of all the curriculum units for one of the strands of the model — on all levels from kindergarten through twelfth grade. (These units may be found in Volumes II and III.) Man and His Physical Environment was chosen as the strand to be developed because it is one of the largest strands and one of the most diverse. The development of this strand now provides a paradigm (by way of both procedure and experience) for the development of the remaining nine strands of the model.

Since the units were developed by the 80 Workshop participants, each working in his own grade level group, they vary somewhat from grade to grade. They do, however, have sufficient similarity to validate the procedure itself (See Section 6.), and it all cases offer more than enough ideas to present the classroom teacher with a reservoir of exciting activities.

From kindergarten through the eighth grade it is possible to discard the traditional subject matter categorization of knowledge and to teach in a self-contained classroom.

The situation on the high school level is much less amenable to Project

Search, to our model, and to a humanistic approach -- by virtue of the necessity

to retain the 88 separate course offerings and the Board of Regents examinations.

These are givens, however, and we must work within these restrictions.

On the high school level, (grades 9-12), the Man and His Physical Environment strand of our Man and His World Model has been developed for English and social studies (in an interdisciplinary approach*). In addition, units for this strand have been developed for high school biology, physics, and algebra. The motivating idea behind these choices was the belief that if we could succeed in humanizing science and mathematics, this would provide evidence that the same could be done for all high school offerings.

^{*} The high school English and social studies units have been developed together, and the intention is to teach them in that manner. On the units themselves, indications are made as to whether a particular activity might be more related to English or to social studies, but these indicators are not meant to be strictly binding.

8. RECOMMENDATIONS

8.1 General

Workshop realize it well, but there is a vital message which must be disseminated to all teachers and all community members. That is this: adopting a hum inistic curriculum does not mean lowering standards. Nor does it mean the elimination of the 3Rs, nor that chaos will be allowed to reign in the classroom. It does mean letting students assume some of the responsibility for their own learning, it means giving them practice in making choices and decisions within clearly defined limits. Structures are provided but even those structures must be flexible enough to allow human adaptation. Such an approach encourages inner-directed discipline to develop.

We strongly suggest not forcing this (or any other) new curregulum on all teachers immediately. It should be possible for a school system the size of Utica's to allow a few schools to follow traditionally successful programs and a few teachers within any single school to continue to teach in their own way. We are convinced of the superiority of the model and of the capability of the participating teachers to convince others of the value of SEARCH in a reasonable amount of time.

Along these lines, the teachers in the Utical system who were not able to attend this summer's workshop (and even those who were) will need additional inservice workshops in which the program can be explained and they can be brought into the scheme voluntarily. One of the added advantages of this past workshop was that it provided an opportunity to elementary and high school teachers, public and parochial school teachers, and classroom and special teachers from several schools

have already had the experience could benefit from additional in-service workshops throughout the year. Workshops of several types are needed: those which simply orient the uninformed, those which train new teachers to participate in the development of the additional curriculum units, and those which prepare the 80 teachers who took part in this past workshop to play leadership roles in the workshops to come. There is also an urgent need to initiate a full-scale public relations campaign to inform the general public of the model and win their support before it is developed to any greater degree. There is now curriculum material concrete enough to illustrate the program for both community residents and the 700 Utica teachers who could not participate in this summer's workshop.

One of the early steps in the process of further developing this curriculum must be the production of perfermance-stated goals for each unit, coupled with the establishment of a sound evaluation system to substantiate Project Search. Without such data, those involved with even the best program will have nothing more than a vague feeling that somebody somewhere must be doing something right. Project Search's potential is too promising to neglect the need for controlled observation and evaluations, and these must be built into the plan without further delay.

Finally, the General Learning team strongly recommends that a Project Coordinator be announced as soon as possible. Coordination is vitally needed to pull together the many aspects of this very heterogeneous project.

Recommendations of a more specific nature follow.

8.2 Structural Changes

During the course of the Summer 1972 Curriculum Workshop, several teachers became aware of the possibility of enhancing the curriculum which was

committee and prepared a rather lengthy report which served as the basis for the suggestions in this section and which should be consulted for its exact contents. To quote from the report itself: "It is not the intent of this committee to make extensive changes, but to develop a setting and realistically implement a curriculum that is intended to reach and motivate all students, teachers, other staff personnel and administration."

Basically, the suggestions tend to group themselves into two categories:

1) those which would require long-term organizational changes; and 2) those which

per. it student options that any individual teacher could choose to adopt within his or

her own classroom. Together they form something of a list of recent innovations in

education:

- Open Space/Open Concept Classrooms
- Home Base Schools
- House Plan
- Mini-Schools
- Self-Contained Classrooms (on the upper grade levels as well as the lower)
- Non-Graded Classrooms
- Modular Scheduling/Flexible Scheduling
- Mini-Courses
- Team Teaching
- Learning Centers
- Study Carrels

- Independent Study
- Learning Activity Packages
- Contract Learning
- Performance-Based Objectives
- Pass-Fail Grading System
- Small Group Learning Situations
- Discovery Approach/Experience-Based Learning
- Use of Volunteer Parents as Unpaid Paraprofessionals
- Youth Tutoring Youth Programs

For teachers and administrators who are interested in contacting school systems now using the above approaches to request further information, the following sources are recommended:

- Alternative High Schools: Some Pioneer Programs, Educational
 Research Service, American Association of School Administrators,
 National Education Association, Washington, D.C.
- 2) <u>Kaleidoscope 4: A Descriptive Collection of Promising Educational</u>

 <u>Practices.</u> Massachusetts Department of Education, Commonwealth of Massachusetts.
- 3) Places and Things for Experimental Schools, Educational Facilities
 Laboratories, New York, New York.

8.3 Use of Special Teachers

Another <u>ad hoc</u> committee which formed early in the Workshop was one which brought together all of the special teachers. For the first time art teachers were able to see that many of their "problems" were identical to those of the industrial arts, music, home economics, and physical education teachers.

because they are the ones whose breadth of experience makes them equally at home on the second or seventh grade level. Many of their fields demand that they specialize in creativity, so their suggestions were particularly appropriate in developing creative, imaginative units. Almost without exception, the special teachers displayed a willingness to develop activities and projects which would relate to and enrich what the student was studying at that moment in his classroom. It is strongly recommended that classroom teachers make more use of the rich resources of the special teachers in their buildings.

8.4 Children with Special Learning Needs

A curriculum can be called "humanistic" only to the extent that children '11 with special needs are recognized and planned for appropriately.

In the final days of the workshop, Dr. Stanley Zager, School Psychologist, and a small committee worked up a model for providing such service in the trica School System. It proposes the establishment of flexible working units, some on a continuing basis and others on an as-needed basis, to work in the five areas of evaluation, intervention, program planning, training and orientation, and inter-agency cooperation. The units themselves concentrate on mental status, retarded and emotionally disturbed children, students with learning disabilities, parent consultation, and the like.

Please refer to the final report of the Special Learning Needs Committee for details of this plan. It is completely compatible with the Man and His World model,

8.5 Plans for Developing Project Search During the Coming Yeas

Still another committee, under the direction of Principal Jane Langlois met to make recommendations for the further development of the project during the coming year. Several very specific recommendations were made, all of which the General Learning consultants endorse completely:

- 1) Written invitations should be sent immediately to the Board of Education members to become participants in Project Search.
- Project Search and the process and accomplishments of the Summer Workshop should be presented in detail to all the teachers in the Utica School System in the general meeting of professional staff on Tuesday, September 5, 1972. Following a brief presentation to the large group, teachers should meet in small groups by grade level, using Workshop participants to take their groups through the Workshop processes, explain why and how units were constructed, and pass out a sample unit for appraisal.
- A minimum of one Wednesday afternoon per month should be spent orienting the personnel in each building with the Summer Workshop participant(s) from that building to be charged with this duty. This would include orienting the principal, first of all, to the need and worth of this use of in-service time. The exact agenda of the Wednesday afternoon workshops would be decided upon so it could be followed simultaneously at all schools. It would include defining humanistic education, affect, and value, and a consideration of appropriate teaching styles.

As the teachers become more aware of the direction of the project and more involved in it, they could begin to develop some units which the group of 80 Workshop participants could refine. They could also critique units to provide feedback to the 80 participants.

- following procedure is recommended: The eighty workshop participants should meet at Seymour School at 2:30 p.m. on one Thursday afternoon per month to assign themselves tasks and discuss what needs to be accomplished, when, how, and by whom.
 - One Saturday per month (a week and a half after the Thursday meeting mentioned above) the participants should meet and work for 5 or 6 hours to continue to develop units and to polish those units developed by individuals.

It is the feeling of the General Learning consultants that one of the biggest problems facing the committee will be to discover some mechanism which will make it possible to produce the necessary number of mits for the remaining nine strands in only twice the amount of time in which one strand's units were developed in the Summ r Workshop. In the participants' favor is the fact that not all the units are as long in scope as the one we developed in the Workshop. Also the first one always takes longer since the process must be learned and internalized at the same time. Furthermore, it has been mentioned above that all the Workshop participants gained

the facility to develop units independently. Still there is much work remaining and ten Saturday's throughout the year provide very little time to accomplish a great deal of work.

- A Public Relations Sub-Committee should be established to act as a liaison with the community. Among other activities this committee. would probably:
 - Organize a speakers' bureau
 - Disseminate the videotape describing the program and its
 development
 - Issue progress reports to newspapers after the monthly meetings
 - Prepare human interest stories about participants
 - Make monthly progress reports to the PTA
 - Prepare news releases for the KNOW Bulletin and the UTA newsletter.
- The Development Planning Committee also underscored the need (referred to in Section 8.1) for additional workshops for teachers.

 Their recommendations were varied in nature, but they particularly thought it would be useful to have a special K-8 workshop next summer (1973) just prior to the formal implementation of the program in Seymour School and a 9-12 workshop for the following summer (1974).

 The General Learning consultants feel that the magnitude of materials which need to be developed for the 88 high school level courses would warrant a special high school workshop both years. It is also essential to have opportunities for high school teachers to meet in

interdisciplinary groups for some of their planning since they tend to be less aware of the other disciplines than do their elementary counterparts teaching in self-contained classrooms.

8.6 Community and Student Involvement - Commitment in the Planning Process

Now that there is at least the nucleus of a plan (the model and the process) and a product (the curriculum units for the strand Man in His Physical Environment) the need to involve students and community members in the planning process of Project Search is timely and urgent. Both populations are of prime importance to the ultimate success of the program, and as recipients, it is natural that both groups should be anxious about the shape and content of the new curriculum.

8.7 . Testing

Many of the teachers in the Summer Workshop seemed to sense that the sing, at least in its traditional form and for the purpose of assigning a gride, may not be appropriate for a humanistic curriculum. The single grade in itself is usually too clums, and too gross an instrument for such a subtle process of rewarding, motivating, or inspiring today's students. However, there are situations even in a humanistic curriculum where it would be appropriate to use formal tests. Such tests will also ensure that the basics and foundations of various subjects will not be neglected in a more open and humanistic curriculum. The tests which are indicated here are the diagnostic tests which have grown out of the individualized instruction movement. These tests allow one to place a student at a definite point in the curriculum stream of a subject. Once this has been done, there are instructional materials to allow the student to begin to study at that point. Usually a relatively short period of concentrated study will permit most students to remody any serious

gaps in their background (normally from 1 to 3 weeks). Such a period of concentrated study in a basic area, e.g., reading or arithmetic, will permit a student to engage in more open activities and group activities without feeling desperate about the lack of some basic skill or operation.

The open activities and group activities'-- which hopefully integrate many skills in an interesting and relevant way -- should call upon the student to use the skills he has learned in carrying out assignments and projects. For example, a student might be asked to calculate and prepare an order for the amount of paint that the class will need to paint a mural the size of an 18' x 6' wall.

In the interest of conveying an attitude that learning is a continuing human process, it is recommended that diagnostic tests be available in meaningful segments so that teachers and students can assess one problem or success area at a time. It is also recommended that such a revision provide for the elimination of graded simbols and that tests be known simply by the skill being surveyed.

A humanistic curriculum such as that encompassed in the Man and His World Model can quite naturally involve all of the branches of know ledge and all of the basic skills. Nevertheless, just as we know that many people do not follow a healthy diet even under the best of circumstances, some students will avoid developing their knowledge and skills in certain areas. If these deficiencies remain hidden, students may develop serious fundamental weaknesses in their learning foundation.

To prevent this, the teacher should be alert to the pattern of a student's work. If he detects a clue that the student is not developing in certain important areas (e.g. fractions in arithmetic) then a diagnostic test should be given and systematic work should be assigned until the deficiency is remedied. The student should be allowed to

end the special assignments as soon as he seems to be back on a reasonable course of development.

All students should periodically be given diagnostic tests in key skill and knowledge areas to uncover hidden gaps in their academic development.

8.8 Awareness of Dévelopmental Stages in Students

During the course of the Workshup, Mrs. Dolores Freed made a valuable contribute now reproducing and distributing to the participants specific information on the psycho-motor developmental stages children pass through. It is essential that teachers planting curriculum units know what is considered normal for the various age levels in terms of sensory awareness, physical coordination, social-interpersonal development, play activities, speech and language, etc. Further developers of curriculum units for Project Search should also be given Mrs. Freed's materials.