## DOCUMENT RESUME

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Career Education Integrated Teaching Unit Handbook. TITLE

Career/Self-Awareness, Grades 5 and 6.

Royal Oak City School District, Mich. INSTITUTION

PUB DATE

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Concept: Unit Plan

Learning Experiences in Technology Project: \*Project **IDENTIFIERS** 

LET

# ABSTRACT

The Integrated Teaching Units for grades five and six constitute the methodology used to implement the career education concepts of Project LET (Learning Experiences in Technology). The document is designed to be used with the project implementation quide. The units were developed from the existing elementary curriculum and are designed to be implemented, evaluated, and revised by the classroom teacher. Arranged alphabetically by topic, the units cover a wide variety of subjects emphasizing an awareness of self, of careers, and of knowledge of the way man does things. For each unit, the title, grade level, a general overview, and teaching/learning resources (reference materials and suggestions for field trips, human resources, and activities) are listed on a plansheet. Concepts (listed according to the subject area to which they relate) with corresponding behavioral objectives, methods of implementation, and resource people and materials are presented in a four-column format. Detailed directions for some student-performed activities are given. Sample instructional materials are included inth some of the units. (Author/MS)

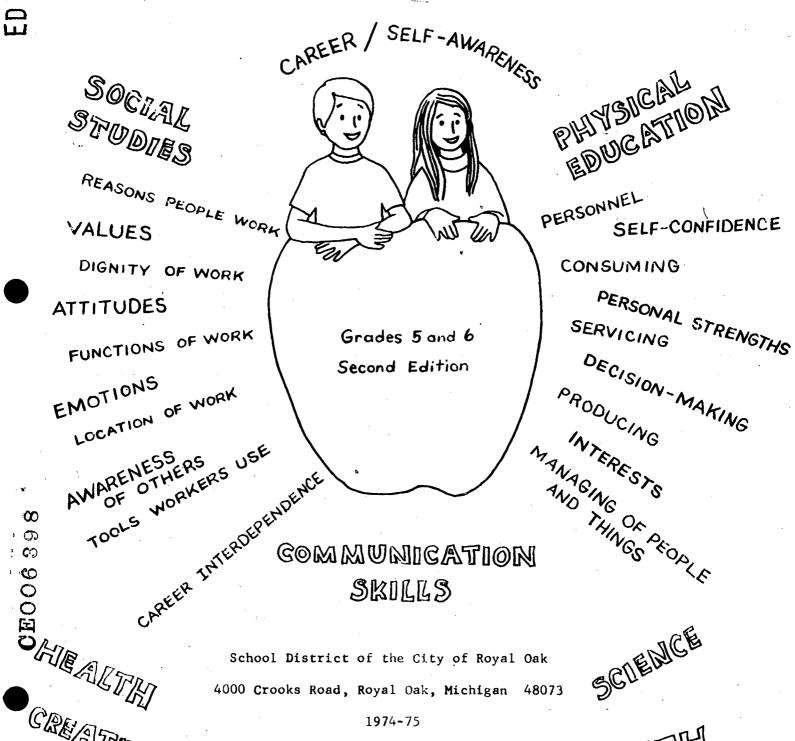
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# CAREER EDUCATION

# INTEGRATED TEACHING UNIT HANDBOOK



2

MATH

## **PREFACE**

This Revised Career Education Integrated Teaching Unit Handbook is intended to be used as a working copy for professional staff. It is not a completed document but a working copy which will be revised by teacher input, particularly in identifying resource people and materials. This document cannot stand alone but is designed to be used with the "Project LET, Guide for Implementation."

The methodology used to implement the concepts of career education is the <a href="Integrated Teaching Unit">Integrated Teaching Unit</a>. These Integrated Teaching Units have been developed and field tested by Royal Oak Elementary Teachers involved in Project "LET". The units were developed from the existing curriculum and are designed to be implemented, evaluated, and revised by the classroom teacher. The duration of each teaching unit varies to allow for flexibility, individuality, creativity, and fulfillment of the needs and interests of each child.

Each unit evolves from the existing elementary curriculum which includes the following components:

- 1. general overview
- 2. teaching/learning resources
- 3. concepts
- 4. behavioral objectives
- 5. methods of implementation
- 6. resource people and materials
- 7. student activities

Inherent in each component is an awareness of self, of careers, and the knowledge of the way man does things. The additional content provided for children in the class-room is the opportunity to explore careers and technology through the utilization of the Integrated Teaching Unit, parent and community resource people, and exposure to numerous careers.



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ANTHROPOLOGY AND ARCHAEOLOGY

# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

ANTHROPOLOGY AND ARCHAEOLOGY

GRADE LEVEL:

5-6

GENERAL OVER ALM: In this Anthropology and Archaeology section, the following lategrated Teaching Units have been combined and a presented as a tentacive guide for ideas in, application to an relevance to the upper elementary classroom:

> Sultural Scudies Ancient Egypt Anciena Greece Anthropological work Indians Scientific analysis and reasoning

Tools History and uses of

# Time tere however are executed as

# 

Colorad to the -

Iff : Not was on Evolution of Man focial Soleaces: Concepts and Values, Book & Charter 1 ha the from Might Gahara La Caravane Du Sel Mike - Boy of Greece Alaskan Eskimo Sanzon Family Boy of Japan Ito and Mis kitch Affa in Geneslands (Argenters Proposi-Esametr of a Race laple are Different and Allko Jean - Hervesting Land and Sea Jawnese Papily Mexican Buy - The Scory of Fable Mexican Village Life Life in Morocco Life in the High Andes ancient Saystian Englis Roday, Grited Leaf Republic History of Living Things hr For of Graece . In the convoictle anthropologist he magazet means (Athel Cak IMC)

> 199's of hard Tools - General Methors Corporation course for Children and and the Study American Industry - Colobert

Books: (continued)

Doing Work - Blaugh

Technology for Children - Scobey

This is Automation - Hirsch

Time Life Series on Development of Tools

World of Work Encyclopedia

Movies: ABC's of Hand Tools

Fossils are Interesting (good for care of fossils)

Greenfield Village Movie History of Living Things

Filmstrips: New Stone Age

Old Stone Age

# 2. Field Trips:

Cultural Studies - (Take rock hammer, cold chisel and basket for carrying on any fossil or rock field trip)

Anthropological field study in pupil's own neighborhood

Arkona, Ontario, Canada (Fossils)

Cranbrook Science Museum

Detroit Historical Museum

Gem and Mineral Show

Greek Town (Detroit)

Sylvania, Ohio (Contact Madina Portland Cement/to ask for permission -

only Saturday or Sunday)

Waterloo Recreation Area Gravel Pit (Fossils)

# 3. Human Resources

Cultural Studies -

Anthropologist

Archaelogist

Lapidary (eg. Brad's Rock Shop)

# 4. Activities

Role playing -

Anthropological survey of people's racial stock, attitudes, social status,

-Tools -

Carpenter

housing types, etc.

Pre-historic man depicting his culture

Cultural representative

Hands On Activity -

Making puppets, models, sun dials, pottery, mummies, water-carriers, pyramids,

masks, dolls, dioramas, and wooden objects

Construction:

Housing

Living creatures (fictitious)

Machines, tools

Other -

Reporters

Inventors



	* com
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	·
Anthropology	Identify three physical traits for an existing society
	Invent three physical traits for a fictitious society Invent three cultural traits for a fictitious society
	Identify three cultural traits of an existing society
A comparison of cultures: Clothing Housing Food	Describe clothing (of various Compare homes societies Enumerate foods under study) Identify three effects of industrialization on culture
Climate	Differentiate between climates of various societies under study
Geographic location	Locate given geographic locations on a map or globe
History	Investigate, gather data, and compare historical significance of two tools through the ages
Tools	Differentiate between tools of various societies
Religious beliefs	Differentiate between religious beliefs of various religious sects
Social structure	List social structures of various societies under study
Norms of behavior	Distinguish between norms of behavior of a society under study
Training of children	Describe training of children in each society under study
Government	Describe governmental structure of each society under study Identify main governing body of each government under study

# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

Research and simulate tools, homes, clothes and foods of various societies

Cultural exhibit from foreign country

Make pyramids - make a kayak.

Make a water carrier

Make mummies - make kachina dolls - make masks - rugs - carvings



UNIT TITLE: <u>CULTURAL STUDIES</u> (Continued)

NCEPTS		BEHAVIORAL OBJECTIVES
Science		As a result of this unit, each child will be able to:
Technology		Invent tools, machines, forms of life and natural principles relevant to the pupil's fictitious society
Animals		List animals common to society under study Classify animal fossils
Preservation of materials		Differentiate between methods of preserving materials
Universe	·	Describe theoretical scientific formation of the pupil's fictitious planet
<b>lat</b> h		,
History of measurement		Tell what each society contributed to the history of measurement Age of earth
Time line		Formulate a fictitious time line of fictitious tools and machinery appropriate to their fictitious society
Gr <b>a</b> phing		Construct and interpret a bar graph - circle graph - line graph - normal correct distribution
Ommunication Skills		
Research		Locate information to verify fossils Locate information concerning each society
Note taking		Keep a journal of locations, finds, place and time Generalize from gathered research informa- tion
Outlining		Reorganize research information
Reporting		Report information via oral and/or written reports
Writing	•	Write or compose creatively a descriptive

# METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS To recognize fossils, clean with a 5% vinegar solution Have an archaeological dig Make sundials Make time line Library research



UNIT TITLE: CULTURAL STUDIES (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
-	As a result of this unit, each child will be able to:
Communication Skills (Cont.)	
Listening and speaking	Ask pertinent related questions in reporting. Interview a member of the fictitious society Give appropriate answers to interviewer's questions concerning the pupil's own fictitious society
Career Awareness	
People and their job roles:	Invent three careers pertinent to the pupil's fictitious society's history and culture Identify jobs within various societies under study Recognize and identify tools used in various societies under study Discuss the necessity of the job within a society under study
Producing	List various products used by each society under study
Servicing	List services provided to the society under study
Cultural scientists	
Anthropologist Archeologist Paleontologist	Identify what they do, what equipment they use, and how they report their findings Identify their areas of study and evaluative instruments Given a list of five supposedly relevant aspects of an anthropologist's career (3 of which are correct), the pupil will correctly identify the three correct answers
Self-Awareness	
Formulating Identity/Self-Concept	Analyze what he knows about his physical characteristics, his abilities, his interests, his social skills and his values in forming a concept of himself



# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

Oral discussions:
Write questions for interview
Interview members of society
Record interview on tape

Research

Report writing

Oral presentation

Writing a report and constructing a fictitious society of invented people and their cultural and physical traits



UNIT TITLE:

<u> </u>	· .
ONC <b>EP</b> TS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	
History	Investigate, gather data, and compare tools through the ages
Application	Manipulate properly a saw, hammer, dremel saw, T-square, clamp, drill
Math	
Measurement	Measure piece of wood, and measure accurately in 1/4" and 1/8" sections
Planning	Prepare a design for the assembly of an object
•	
Career Awareness	
People and their job roles	Describe at least five jobs requiring the use of tools
Self-Awareness	
Appraisal of motor skills	Describe three motor skills that he does well.



Describe three motor skills that he does well. Keep a diary of his performance of those motor skills and identify the one he did best and the one he did least well

METHOD OF TIME	PLEMENTATION		RESOURCE PEOPLE & MATERIAL	.S
Practice use of	tools with wood scraps			
			en e	
				_
Each student sh to measure and	ould be given the opport prepare his own object	uni ty		
Each student sh to measure and	ould be given the opport prepare his own object	unity		
Each student sh to measure and	ould be given the opport prepare his own object	unity		
Each student sh to measure and	ould be given the opport prepare his own object			
Each student sh to measure and	ould be given the opport prepare his own object	unity		
Trip to lumber Trip to a const	prepare his own object			



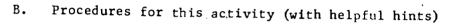
# I. NAME OF ACTIVITY

ANTHROPOLOGICAL OBSERVATIONS

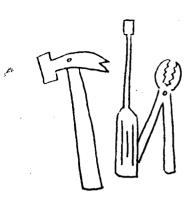
# II. ACTIVITY FORMAT:

A. Tools and materials

Pencils Paper



- a. Observe one neighborhood block to determine size of houses, condition, type of construction; or
  - b. Observe people of one neighborhood block to detect type of clothing, house, car, etc.; or
  - Observe people's behavior on one neighborhood block to determine prevailing moods, attitudes; or
  - d. Observe people's physical characteristics on one neighborhood block to determine their racial stock(s).
- Construct a bar, line, circle or distribution curve graph to represent observations made in the field (step 1).
- 3. Attempt to interpret graph representations into human attitudes, values, social class, racial stock (whichever is pertinent to type of observation made).



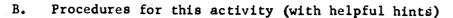
# I. NAME OF ACTIVITY

MAKING EXAMPLES OF FOSSILS OR ARTIFACTS

# II. ACTIVITY FORMAT:

A. Tools and Materials

> pails small milk cartons newspapers mixing sticks vaseline small objects plaster of paris #10 water (toys, etc.)



- 1. Rub a coating of vaseline on small objects or artifacts to be "fossilized"
- 2. Pour plaster of paris into proper size milk cartons
- 3. Let harden until slightly firm
- 4. Depress objects into plaster of paris5. Remove object when plaster of paris is firm
- 6. Let sit overnight
- 7. Rub a coating of vaseline over "mold" formed
- 8. Pour about 1 inch of plaster of paris to make "cast"
- 9. Let harden about one hour
- 10. Pull mold and cast apart



I. NAME OF ACTIVITY

MAKING KACHINA DOLLS

- II. ACTIVITY FORMAT:
  - A. Tools and Materials

Toilet tissue rolls Feathers Leather

Plain fabric Printed fabric

B. Human Aides and Resources

Art Teacher

C. Procedures for this activity (with helpful hints)

Using toilet tissue rolls as a base for dolls, students can make kachina dolls. Page 62 of <u>Social Studies</u>: <u>Concepts and Values</u> (Grade 5) shows three dolls and pupils may expand upon those ideas.



I. NAME OF ACTIVITY

ARCHAEOLOGICAL DIG

# II. ACTIVITY FORMAT:

A. Tools and Materials

Large plastic bag Waste paper from separate room

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Empty contents of different rooms waste paper baskets in plastic bag.
  - 2. Student must dig for finding and list concrete reasons for placement in each particular booklet.



I. NAME OF ACTIVITY

MAKING MUMMIES

# II. ACTIVITY FORMAT:

Α. Tools and Materials

> Newspaper Wheat paste

Water

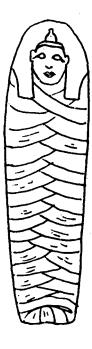
Coat hangers

Sheeting

В. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - Make form of mummy from coat hanger
  - 2. Mix wheat paste stuff coat hanger with wads of newspaper, then with strips of newspaper coated with wheat paste, make layers to cover form of the mummy.
  - Make several layers of the strips of newspaper.
  - Final layer should be made with strips of sheeting.



# I. NAME OF ACTIVITY

JAPANESE FOOD PREPARATION

# II. ACTIVITY FORMAT:

A. Tools and Materials

Futonaga udon Miso-shiro Memmi Nori Rice crackers Chopsticks
Bowl per child
Stove
Several kettles

B. Human Aides and Resources

Person of Japanese descent

- C. Procedures for this activity (with helpful hints)
  - 1. Have each child bring in a bowl, several students should bring in kettles.
  - 2. Food will be prepared in the kitchen.
  - 3. Consult Oriental Cookbook for recipes if Japanese human resource is unavailable.

# I. NAME OF ACTIVITY

MAKING PRE-HISTORIC WORKING MODEL TOOLS

# II. ACTIVITY FORMAT:

A. Tools and Materials

Tool panel compliment Sticks

Twine

1/2 inch doweling

Flat rocks

B. Human Aides and Resources

Teacher

C. Procedures for this activity (with helpful hints)

### Hammer

- 1. Cut stick to length for hammer handle
- 2. Select flat rock for head
- 3. Tie rock to handle with twine

# Bowdrill

- 1. Cut doweling to length for drill
- Sharpen end of drill
- 3. Make bow of twine and a thin strip of wood or a small diameter stick

I. NAME OF ACTIVITY

REPORTS ON OCCUPATIONS

# II. ACTIVITY OF FORMAT:

A. Tools and Materials

Chalk board

Books on occupations

Paper

Pencils

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Brainstormed occupations
  - 2. Narrowed down list later
  - 3. Choose job they wanted to explore
  - 4. Outlined what they wanted to know
  - 5. Researched
  - 6. Wrote rough draft
  - 7. Wrote final copy
  - 8. Presented findings to class



I. NAME OF ACTIVITY

MURAL - PAINTING MURALS OF DEVELOPMENT OF TOOLS

# II. ACTIVITY FORMAT:

A. Tools and Materials

Assorted brushes Old coffee cans Smocks for children

Tempora paint Paper

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Preplanning murals
  - 2. Organizing material needed
  - 3. Paint mural

I. NAME OF ACTIVITY

FAMILY OCCUPATIONS

# II. ACTIVITY FORMAT:

A. Tools and Materials

paper, etc.
boxes

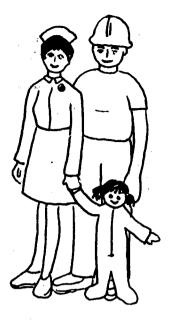
scissors

paste

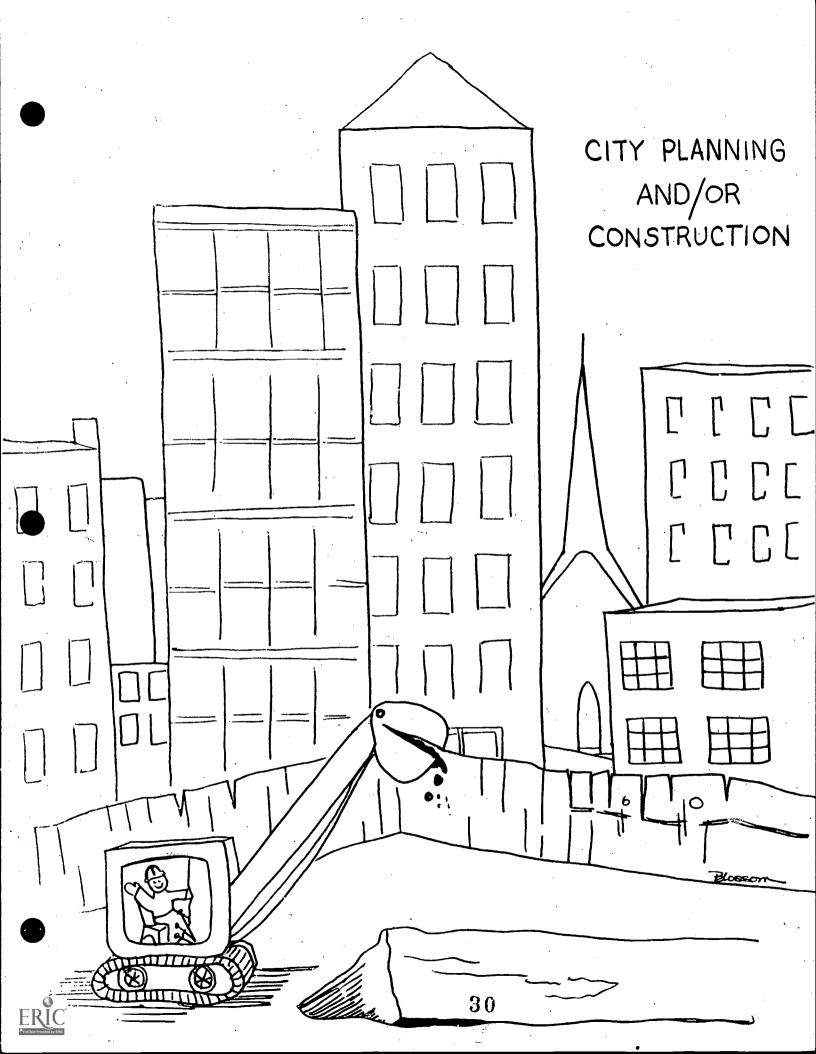
B. Human Aides and Resources

Parents and relatives

- C. Procedures for this activity (with helpful hints)
  - 1. Discuss "Family Tree"
  - 2. Discuss careers of family
  - 3. List questions to ask: why parents work in the jobs they are in - what knowledge, skills, and attitudes needed?
  - 4. Construct paper people to simulate family
  - 5. If feasible, costume paper people in job roles







SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

CITY PLANNING AND/OR CONSTRUCTION

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

This unit encompasses city planning and/or construction.

# TEACHING/LEARNING RESOURCES:

#### 1. Reference materials:

Books: World Almanac

Encyclopedias

Social Science Texts

Trade Books

Maps:

City plans of Royal Oak

City plans of other cities

Road maps

Slides: Famous and/or relevant sections of American cities

Suggested Specific: Read Unit 2 of The Social Sciences: Concepts and Values, Harcourt Brace Jovanovich

#### 2. Field Trips:

Walk around neighborhood Trip to city hall Trip to another city - unlike their own (for comparisons and contrasts)

#### 3. Human Resources:

City planner Travel agency representative People from other cities to discuss their cities

# Activities:

Roleplaying: Taking on the roles of various city officials' jobs Bring an architect and design a city



Hands-on Activities:

Reading maps

Taking an imaginary trip using maps

Designing their own street

Designing and making to scale on cardboard or

plywood, their own cities

Making sketches of possible city plans

Other:

Identify 20 cities in the United States, including their locations, the chief occupations of the people in the city and the populations of the cities.

UNIT TITLE: CITY PLANNING

# CONCEPTS

# BEHAVIORAL OBJECTIVES

# Social Sciences

People who work in a city

Why cities grow where they do:

urban growth and decay

suburban development zoning laws Different kinds of cities

Chief occupations
Locations of cities
Correlation of city location and
chief form of industry

As a result of this unit, each child will be able to:

List 5 occupations pertinent to city employment

List 5 reasons why cities grow where they do Identify 2 characteristics of urban slum areas Identify one reason for the existence of suburban areas List 5 different kinds of cities according to prime importance or fame

Recognize and cite evidence for a relationship between locations and major occupations of a city.

# Science

Interrelationship between a city and its natural resources

Physical outlay of city Symmetrical construction of city Discuss why natural resources are important to a city.

Plan and build or construct a model city using glue, wood, styrofoam or such available materials.



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MET	THOD OF IMPI	LEMENTATIO	N	RESOURCE PEOF	PLE & MATERIALS
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Construction engineer Construction contractor UNIT TITLE: CITY PLANNING (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Measurement scale (ratio)	Measure distance on globes and figure actual mileage
	Draw to scale a city of his own design
Size (population, area)	Measure the necessary amount of materials needed for his city construction
Communication Skills	
Printing Labeling	Name and write description of imaginary city
Spelling	Make identifying city signs for streets and buildings
	Identify areas on Royal Oak City Planner's map
Writing	Write a thank-you note for guest speakers
Research	Gather data on a city
Writing	Write a report on information found
Art	
Travel folders	Make a pictorial folder to advertise the city
and the second of the second o	

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Practice measuring on globe	
Work with art teacher to design, draw, and construct scale models for each imaginary city	
Obtain city maps from several different cities - compare each street plan - use maps to help plan street layouts for the	
imagina <b>r</b> y c <b>ity</b>	
•	*
Examine travel folders from travel agencies for ideas	Travel agent



UNIT TITLE: <u>CITY PLANNING</u> (continued)

CONCEPTS

BEHAVIORAL OBJECTIVES

Career Awareness

People and their job roles

Managing Producing Servicing As a result of this unit, each child will be able to:

Identify main type of work performed in each of the following occupations:
 city commission
 city planners
 construction contractor
 construction engineer construction worker
 researcher

Self-Awareness

People's activities

Describe three situations in which people's activities provide information about their characteristics



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Role play var	ious jobs of c	ity dwellers		•		
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#### I. NAME OF ACTIVITY

DESIGNING AND MAKING A SCALE MODEL OF A CITY

#### II. ACTIVITY FORMAT:

A. Tools and Materials

1/4" plywood rulers clamps
paint woodburners goggles
shellac saws graph paper

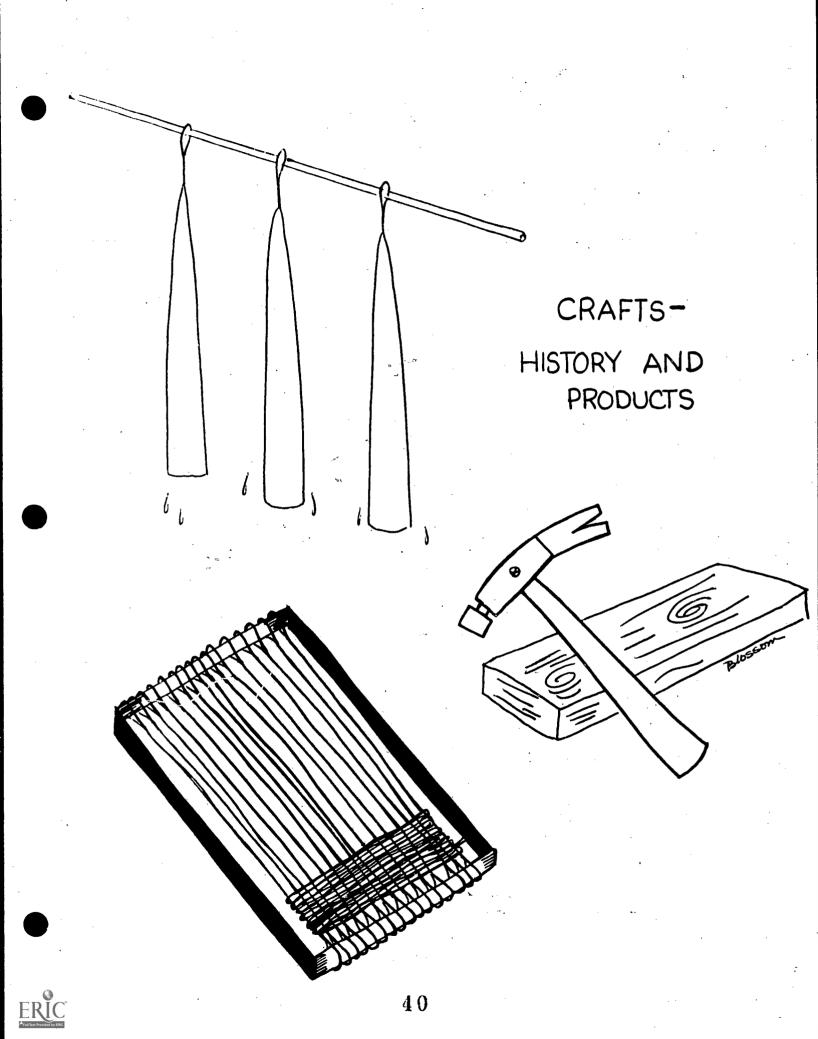
B. Human Aides and Resources

Teacher

C. Procedures for this activity (with helpful hints)

Design city on graph paper.
Alter scale to piece of plywood.
Put in city buildings.
Put in residential areas.
Name city.
Paint, woodburn, etc., city to highlight certain areas.

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# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

#### INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

CRAFTS - HISTORY AND PRODUCTS

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

This section includes units of study relating to crafts

during various periods of history.

#### TEACHING/LEARNING RESOURCES:

#### Reference Materials:

Films: (available from IMC)

Autobiography of a Man

Beginnings and Growth of Industrial America

Biography of a Chair The Cotton Farmer Discovering Texture \*Greenfield Village \*Henry Ford Museum

Life in a Medieval Town

Medieval Manor

Medieval Times: Guilds & Trades

What Is Automation Why Man Creates

\*Available free from Greenfield Village

#### Filmstrips:

Castle Life

Cotton Spinning and Weaving

Fair-Medieval, The How Industry Began

Learning About Indian Crafts

Medieval Manor

Medieval Towns & Cities

Town

Town & Its Guilds

#### Realia:

Candle-snuffer Candle-mold

Loom

Christmas Tree Candle Holder Cotton from Plant to Product

#### Books:

Exploring the Old World, Ahesihwede
Human Adventure, The, Cappelluti and Grossman
Made in the Middle Ages
Medieval Days and Ways
Principles and Practices in the Teaching of
Social Sciences, Books 5 & 6, Harcourt, Brace & Jovanovich
Teaching Children About Technology, Scobey, pp. 307-8, pg. 348

#### Newspaper:

Trip to a lumber yard

Detroit News - Nov. 28, 1971 Good Earth Almanac

# 2. <u>Field Trips</u>:

Greenfield Village
Plant - Ford Motor Company
Detroit Institute of Arts
The Weavery
Historical Centennial Farm (12 Mi. & Schoenerr), Warren, Michigan

#### 3. Human Resources:

Parents with weaving skills, looms, etc. Students from Macomb College Guides and Craftsman at Greenfield Village Art Teacher

#### 4. Activities:

Role Playing
Apprentice
Journeyman
Craftsman
Assembly line worker
Quality control man
Packager
Company sales manager
Advertising manager

Hands on activities
Candle-making
Carpentry
Weaving
Soap making
Brick making
Tapestry making
Design a wall hanging
Weave a belt
Make loom
Tic tac toe boards
Make printing sets
Tin Smiths



UNIT TITLE: CRAFTS - HISTORY AND PRODUCTS

CONCEPTS

BEHAVIORAL OBJECTIVES

Social Sciences

Middle Ages

How goods are produced

American Heritage (Greenfield Village)

Economics

Crafts

As a result of this unit, each child will be able to:

List 5 reasons why the middle ages were important

List 3 characteristics of the raw material they used to make a product

List 5 facts about Greenfield Village List 5 facts about Henry Ford Museum Role play a day in colonial school Compute cost/profit relationship for each product made

Discuss critically the importance and the utilization of each craft with which each child became involved

Compare use of tools - past and present

Identify crafts that have died out because of technological progress

Math

Measuring

Ge**o**metry

Money

Accurately measure the materials necessary for each product to be made

Plan and prepare geometric patterns

Accurately make change for products sold

METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS Greenfield Village - Miller School Trip to Greenfield Village and Henry Ford Museum Keep records of cost of materials and sales Group discussion Make each individual project and/or product



Sell objects

UNIT TITLE: CRAFTS - HISTORY AND PRODUCTS (continued)

CONCEPTS

BEHAVIORAL OBJECTIVES

Communication Skills

Writing plans

Reports

Following directions

Letter - Writing

As a result of this unit, each child will be able to:

Formulate plans necessary to make each product

Relate through the written or oral word, how each product is produced and used

Interpret directions necessary for a product to be made

Distinguish between and write accurately an invitation, a thank-you note and a letter to people directly involved in the implementation of the unit

Art

Texture

Colors

Identify, differentiate and use varying textures within products made

Compare and contrast colors necessary to make an attractive, saleable item



METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS Discuss appropriate letter needed Examine today's style of writing letters Write letters to people involved in helping with this unit Let students experiment with color and texture before making their product

UNIT TITLE: CRAFTS - HISTORY AND PRODUCTS (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
· .	As a result of this unit, each child will be able to:
Career Awareness	
People and their job roles:	
Producing	Make a product from raw materials through the packaging process
Servicing	Distribute, advertise, sell and repair each product he has made
Personnel	Identify working conditions necessary for each job station of products and services produced to be made
	Compare and contrast the economic crewards gained through each occupation involved in making a product
Tools	Describe and distinguish between the characteristics, tools and importance of each craftsman and his job
Self-Awareness	
Building self-confidence	Describe how he feels when he knows he has done something well
	Explain how successfully doing something new increases self-confidence

METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS Each child chooses to make a product: 1) weaving 2) candle making 3) tapestries 4) wooden objects 5) wall hangings 6) soap making Through: 1) dial discussion 2) written reports 3) oral reports 4) pictures Make individual product and/or project

#### I. NAME OF ACTIVITY

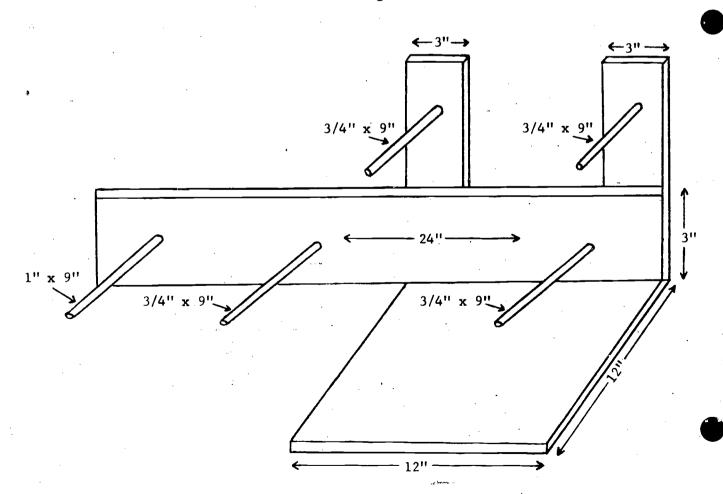
INKLE LOOM

#### II. ACTIVITY FORMAT:

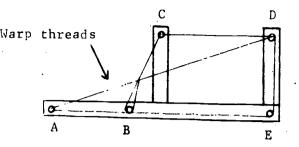
A. Tools and Materials

Tool Panel compliment
Materials for drawing (pine)

- B. Procedures for this activity (with helpful hints)
  - 1. Cut four dowels each 9" x 3/4"
  - 2. Cut one dowel 9" x 1"
  - 3. Cut two boards 3" x 3/4" x 10" one 12 x 12 base
  - 4. Cut one board 3" x 3/4" x 24" long
  - 5. Drill 4 (four) 3/4" holes as shown
  - 6. Drill one l" hole as shown
  - 7. Glue and nail pieces together
  - 8. Insert dowels with glue







#### Basic Threading of Warp

Heddles = 12" strings, tied in a loop, attached to dowel in this manner

Attach 9 heddles (white cotton string) to dowel 8" as shown



Thread first warp string (yarn) through loop of heddle, over dowel C, around D and E, back to A. Tie end.

Second warp string goes next to heddle, not through, around dowels D and E, back to A. Tie end.

Continue in this manner to thread 17 warp strings, using 9 heddles.

#### To Weave:

Place loom in front of you with open edge on your right. With left hand, raise up all the warp threads directly in back of heddles until you see a definite opening between layers of threads. This is called an "up shed". Weave through, using yarn wrapped around cardboard. Next press down threads in back of heddles. This is a "downshed". Weave back through. Place right hand in between layers and "beat down" (pack threads closer together). Continue in this manner, pulling threads toward you until length desired. Until knots to remove.



1. NAME OF ACTIVITY

CANDLE-MAKING (SAND CASTING)

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Burner Wax Sand (not fine)
Double Boiler Paper cones Sticks
Tin Can Wicking

- B. Procedures for this activity (with helpful hints)
  - 1. Put moist sand in box
  - 2. Put one cone in sand, point down
  - 3. Remove cones; sand should retain shape of cone
  - 4. Insert wicking (across paste-stick) into sand mold
  - 5. Pour wax into mold
  - 6. Allow wax to cool and solidify
  - 7. Remove candle from sand



#### I. NAME OF ACTIVITY

CANDLE-MAKING (MOLDING)

#### II. ACTIVITY FORMAT:

A. Tools and Materials

hot plate crayons for coloring
double boiler wax
string scent (for mulmolds candle wicking tiple batch)
wax vegetable oil
stearic acid paste sticks
Procedures for this activity (with

- B. Procedures for this activity (with helpful hints)
  - 1. Melt wax
  - 2. Coat molds with vegetable oil
  - 3. Cut wicking and tie to paste sticks
  - 4. Dip wicking into wax; return wicking to mold
  - 5. Add scent to wax
  - 6. Pour wax into molds
  - 7. Let stand overnight
  - 8. Release candles from molds
  - 9. Wipe off vegetable oil from candles



#### I. NAME OF ACTIVITY

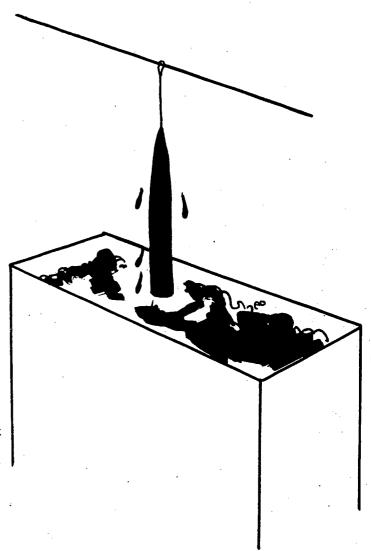
#### CANDLE DIPPING

#### II. ACTIVITY FORMAT:

#### A. Tools and Materials

double burners
hot plate
staplers
plastic bags for
packaging
construction paper for
labeling
nails
paraffin wax
wicking
scent
colored crayons
wax hardener

- B. Procedures for this activity (with helpful hints)
  - Melt paraffin, scent and wax hardener in double boiler over hot plate
  - Pupils stand in revolving circle, dipping candles when passing melted wax
  - Decorate by carving, pasting labels, etc.
  - 4. Package and lable finished product
  - Sell finished product



#### I. NAME OF ACTIVITY

MAKING AND DESIGNING SHIELDS OR CRAFT GUILD SIGNS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

oaktag saws corrugated scissors paint brushes cardboard woodburning set plywood

- B. Procedures for this activity (with helpful hints)
  - 1. Research history of shields or Craft Guild signs
  - Draw rough draft on oaktag
     Cut pattern from oaktag

  - 4. Trace pattern on corrugated cardboard
  - 5. Cut out design
  - 6. Paint design
  - 7. Let dry
  - Varnish shield 8.
  - Display





I. NAME OF ACTIVITY

MAKING TAPESTRIES

#### II. ACTIVITY FORMAT:

Α. Tools and Materials

Needles

Scrap material

**Glue** 

Scissors

Yarn

Burlap

Thread

В. Procedures for this activity (with helpful hints)

1. Design pattern

2. Cut out pieces of material needed or coded colors of yarn

3. Glue or sew yarn or material pieces on burlap

I. NAME OF ACTIVITY

MAKING SMALL WOOD OBJECTS (KEYCHAINS, PENCIL HOLDERS, ETC.)

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Sandpaper Chisel Glue
Hammers Wood scraps Paste-sticks
Saws Paint

- B. Procedures for this activity (with helpful hints)
  - 1. Make pattern for object to be made
  - 2. Trace pattern on wood
  - 3. Carve wood
  - 4. Sand wood
  - 5. Paint finished object

#### I. NAME OF ACTIVITY

MAKING WALL HANGINGS

#### II. ACTIVITY FORMAT:

. A. Tools and Materials

Burlap 1/2" Doweling Crewel needles Yarn

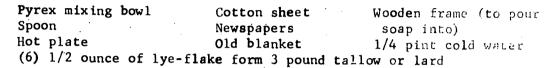
- B. Procedures for this activity (with helpful hints)
  - 1. Draw design first on sheet of paper
  - 2. Approval of design by teacher
  - 3. Procure material from teacher (burlap and yarn)
  - 4. 1 1/2" hem in top of each hanging sewn with sewing maching
  - 5. Steam press each hanging
  - 6. Insert doweling

I. NAME OF ACTIVITY

MAKING SOAP

#### II. ACTIVITY FORMAT:

A. Tools and Materials



- B. Procedures for this activity (with helpful hints)
  - 1. Follow directions on can of lye for making soap
  - 2. Or consult Teaching Children About Technology, Scobey, pp. 36/
  - 3. Or consult Detroit News, January 9, 1972 Good Earth Almanac



#### I. NAME OF ACTIVITY

LOOPER-WEAVING LOOM

#### II. ACTIVITY FORMAT:

A. Tools and Materials

ruler hammer
saw miter box
cutting pliers 6 d finishing nails
3/4" x #16 Wire brads (1 lb. per 10 students)
1" x #18 Wire brads (1-1/2" for corners)
2 pieces soft wood 3/4" x 3/4" x 7-1/2"
2 pieces soft wood 3/4" x 3/4" x 9"
2 pieces hardboard or plywood 1/8" x 2" x 2"

- B. Procedures for this activity (with helpful hints)
  - 1. Using 6 d finishing nails, nail soft wood frame together
  - 2. Cut 2 square of hardboard diagonally in half and nail the triangles across corners with 3/4" x #16 wire brads
  - Lay out and mark 20 equally spaced points on each side of the frame
  - 4. Drive a #18 wire brad at each point, leaving 1/2" of the brad sticking up
  - Using a piece of coat hanger wire about 12<sup>n</sup> long, shape a weaving hook



#### I. NAME OF ACTIVITY

ALUMINUM FOIL EMBOSSING

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Depression instruments (paste sticks, pencils, meat picks, popsicle sticks)

- B. Procedures for this activity (with helprul hints)
  - 1. Make rough draft on paper of tentative product
  - 2. Make copy of pattern in aluminum plates and pans
  - 3. Depress design in tin
  - 4. Paint over designs with black poster paint
  - 5. Wipe excess paint off



#### I. NAME OF ACTIVITY

RELIEF PRINTING

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Brayer Corrugated cardboard Glue
Exacto-knife Large sheets of white paper
Printing ink Newspapers

- B. Procedures for this activity (with helpful hints)
  - 1. Make pattern for design
  - 2. Cut out pattern from corrugated cardboard
  - 3. Glue pattern to another piece of corrugated cardboard
- 4. Spread ink (from tubes) on a piece of newspaper
- 5. Roll brayer in ink
- 6. Roll inked brayer over corrugated cardboard pattern
- 7. Remove "printed" paper

# I. NAME OF ACTIVITY

WEAVING (MAKING A WAFFLE WEAVE)

# II. ACTIVITY FORMAT:

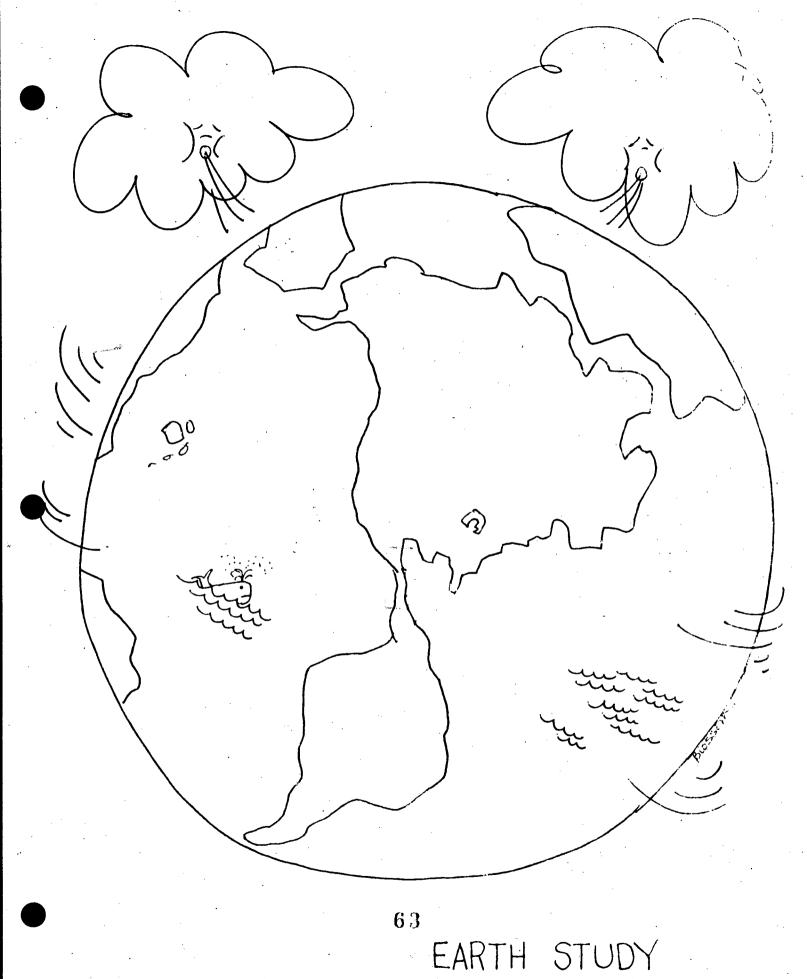
A. Tools and Materials

Saws Scrap wood Hammers String Nails Yarn

B. Procedures for this activity (with helpful hints)

Saw plywood into pieces  $10" \times 2" \times 1/2"$ Nail sides together On opposite sides 1/2" apart, nail small nails Attach string to nails (Refer to Teaching Children About Technology, Scobey, p. 348)

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# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

EARTH STUDY

**GRADE LEVEL:** 

5-6

GENERAL OVERVIEW:

In this earth study section, the following integrated teaching units have been combined and/or presented as a tentative guide for ideas in application to or relevance to the upper elementary classroom:

Air and Weather Geology Oceanography Water

13, 18,5



# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

AIR & WEATHER

GRADE LEVEL:

5-6

# TEACHING/LEARNING RESOURCES:

#### 1. Reference materials:

Books:

Science Texts

Trade Books

Library Books

National Weather Service will provide used weather maps

# 2. Field Trips:

National Weather Service, Metropolitan Airport

# 3. Human Resources:

Weatherman Science teacher

#### 4. Activities:

Role-playing
Weather forecasters using instruments made by the students

Construct Barometer
Construct Anemometer
Construct Wind Vane
Construct Hair Hygrometer
Construct Card File
Interviewing a Weatherman

UNIT TITLE: AIR & WEATHER

CONCEPTS	•		

# As a result of this unit, each child

BEHAVIORAL OBJECTIVES

#### Social Sciences

Maps and Globes

will be able to:

Identify and read a weather map and from it accurately predict weather

Construct a map showing geographical relation to climate

#### Science

Instruments

Recognize and define common terms associated with weather

Identify a minimum of five weather instruments describing accurately how they operate and what they measure

Manipulate correctly five weather instruments

Interpret findings from weather instruments and formulate weather predictions from findings

State five reasons for the need of accurate weather predictions

Construct and demonstrate a weather instrument

Differentiate between types of clouds and their effect upon weather

Differentiate and diagram layers of the atmosphere

Clouds

**Atmosphere** 



# METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS Have weather maps available practice reading them Weather forecaster

Make and use weather instruments

Record information obtained from their weather instruments. Compare accuracy with actual weather information

Research, identify and discuss various cloud formations; layers of the atmosphere



UNIT TITLE: AIR & WEATHER (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
<u>Math</u>	
calculation	Interpret, compute and record information from weather instruments
	,
Communication Skills	
Writing	Make a log and record daily weather findings
Interviewing	Discuss critically weather concepts with a weatherman by first preparing questions for the interview
Vocabulary	Define vocabulary words, alphabetize and file them
	-
<u>Art</u>	
Collage	Gather weather pictures and reorganize them to make a collage
	÷
	•



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS		
Make a graph or daily log			
Invite weatherman into the classroom			
· · · · · · · · · · · · · · · · · · ·			
Gather pictures from old newspapers and magazines			



UNIT TITLE: AIR & WEATHER (continued)

#### CONCEPTS

#### BEHAVIORAL OBJECTIVES

#### Career Awareness

People and their job roles:

Functions Locations Tools Characteristics

#### Management

Planning Organizing Controlling As a result of this unit, each child will be able to:

Identify and discuss job roles of those people who work at a weather station

Prepare a chart of relationships of various careers to weather

Identify and discuss job roles of those people who work for radio and TV in the area of weather

Identify those management functions required of a weather station

Role play a hiring position for a job in a TV station

#### Self-Awareness

Identification of personal values

Identify two characteristics that he would look for in a job if he were looking for a job and identify the values reflected in those objectives (e.g., independence, good salary, financial security)

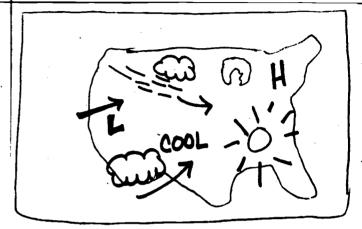
Give a specific example of something he learned about a person from watching that person's activities



#### METHOD OF IMPLEMENTATION

#### RESOURCE PEOPLE & MATERIALS

Invite people connected with weather careers into the classroom



Watch weather reports on local TV news show

Weather forecaster

Invite people connected with weather careers into the classroom

Watch reports on weather segment of local TV news show

Hugh Copland, WWJ-TV



#### I. NAME OF ACTIVITY

ANEMOMETER

#### II. ACTIVITY FORMAT:

A. Tools and Materials

coat hanger
milk carton
medicine dropper
four pointed paper cups
paper clips or stapler

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)

Untwist hanger. Break off crooked ends. Bend into shape. (see diagram) Holding medicine dropper by rubber bulb, melt glass tip over flame or burner. Tip should be closed. Allow to cool. Cut 4 strips, one from each corner of milk carton, about 3/4" from corners. These are the arms. Make large colored circle on one cup (to count the terms). Cut 2 slots 3/4" wide, in each of the paper cups. Slip folded strips into slots of cups, one to each. Take off rubber bulbs, fasten arms to dropper with clips. Slip dropper over upright wire.

# III. Results of this activity (after implementation)

Count number of turns in 30 seconds, divide by 5, and that will give you miles per hour (approximately).

#### I. NAME OF ACTIVITY

BAROMETER

#### [I. ACTIVITY FORMAT:

A. Tools and Materials

milk carton needle paper clip small tin can broomstraw rubber band balloon 4x6 card penny thread glue

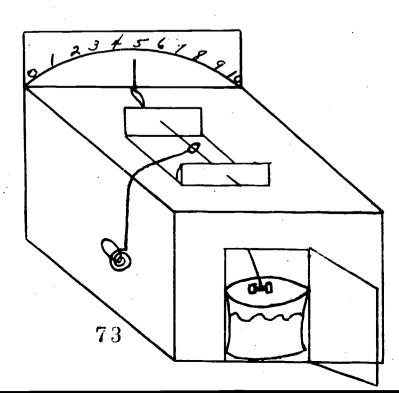
B. Human Aides and Resources

C. Procedures for this activity (with helpful hints)

Fold in open end of carton (becomes bottom). Cut H slit on top of carton, fold up flaps, insert needle through flaps. Glue 4" broomstraw into eye of needle. Cut door in front. Stretch balloon piece over tin can, fasten with rubber band. Attach thread to balloon with tape. Run thread up through H, wrap around needle twice, hang down over the side and attach penny and clip for weight. Make gauge with degrees, attach to back with tacks. See diagram.

III. Results of this activity (after implementation)

Most barometers worked well enough to register some change on the gauge.





#### I. NAME OF ACTIVITY

HAIR HYGROMETER

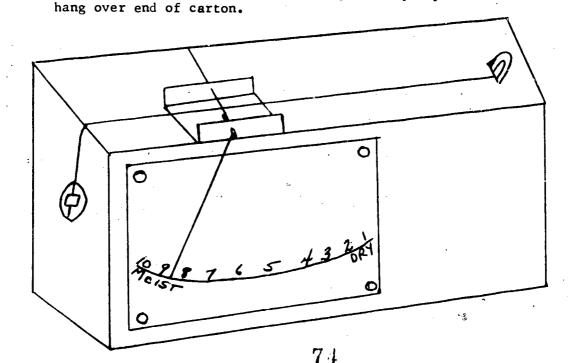
#### II. ACTIVITY FORMAT:

A. Tools and Materials

milk carton glue
needle a hair - 9"
broomstraw thumbtacks
scotch tape blank card
penny paper clip

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)

Wash the hair.
Cut an "H" on one side of the carton.
Bend two tabs up and punch hole in each with needle.
Split off broomstraw about 3" long. Put one end through eye of needle and glue it there.
Cut narrow slit at far end of carton, push paper clip in halfway.
Draw half circle on card and print as shown.
Thumbtack to card.
With tape fasten one end of hair to penny.
Place needle and straw into holes in "H" tab.
Wind hair around needle, one turn from underneath and around.
Glue free end of hair onto paper clip. The penny should





#### I. NAME OF ACTIVITY

WIND VANE

#### II. ACTIVITY FORMAT:

A. Tools and Materials

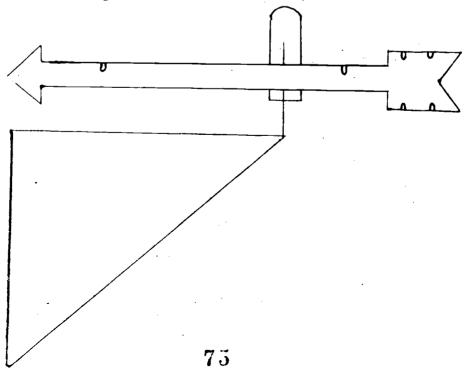
medicine dropper milk carton coat hanger paper clips staples

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)

Make a coat hanger bracket just like the one for anemometer. Prepare medicine dropper in the same way. Cut a double strip of paper from corner of carton, similar to anemometer, but 2" away from the corner. Cut in shape of arrow. Push tube of dropper between 2 parts of the arrow, closer to the point than tail. Fasten with paper clips or staples.

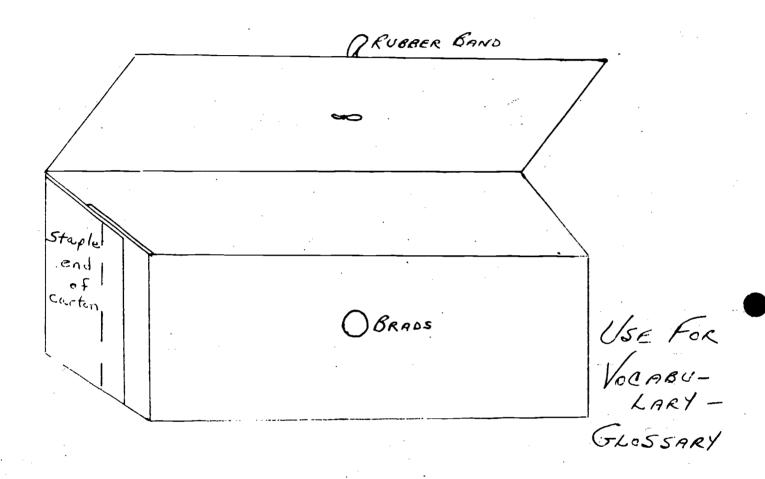
# III. Results of this activity (after implementation)

It will point to the direction from which the wind is blowing because the tail is larger and catches more wind.





# CARD FILE-MILK CARTON



# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

**GEOLOGY** 

GRADE LEVEL:

5 **-6** 



### TEACHING/LEARNING RESOURCES:

#### 1. Reference materials:

Books: Science for the Elementary School, Victor Probe (Educational Services of Michigan)

Pamphlets: Michigan Department of Natural Resources

### 2. Field Trips:

American Aggregate - Kensington Road Rock quarry - Chelsea, Michigan Arkona, Ontario - Rock quarry Sylvania, Ohio - Rock quarry Miner's Den Rock Shop - Royal Oak Gem and Mineral Show - Check for date

## 3. <u>Human Resources</u>:

Parents Jeweler Lapidary

#### 4. Activities:

Rock collection
Make a volcano
Reports
Grow crystals
Make a sedimentary rock
Make a fossil
Charts on different occupations related to solid earth
Find a fossil



UNIT TITLE: GEOLOGY

CONCEPTS	BEHAVIORAL OBJECTIVES
,	As a result of this unit, each child will be able to:
Science	
Rocks	Distinguish between formation of three major rock groups
	Recognize and identify the three major rock groups
Changes in the earth's surface	Draw a diagram of earth's structure
	Relate and differentiate between the forces that change the earth's surface
Interdependence of man and earth	List five ways in which man depends on the solid earth
Communication Skills	
Brainstorming	Suggest three jobs associated with the solid earth
	Discriminate among jobs suggested and identify jobs to be studied
Gathering information	Gather data from various sources on geological careers
	Reformulate data and write report or draw pictures and mount on chart for display



	Av
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
· · · · · · · · · · · · · · · · · · ·	
Make rock collection and identify each Make a sedimentary rock	Mallinson Book 5
Make a volcano	,
er en	
Write reports	
Talk with men at gravel pit	Gemologist, miner, lapidary



UNIT TITLE: GEOLOGY (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Career Awareness	
People and their job roles:	
Functions	Investigate, identify and describe jobs related to the solid earth (e.g., gravel pit)
Locations -exterior -climatic	Discuss locations of geological work and characteristics of each
Working conditions	
T <b>rai</b> ning	Describe the various education required for people who work in jobs related to geology
·	i de la companya de

# Self-Awareness

Facilitating personalized planning and decision making

Give an example of how a person's knowledge of his skills and interests can influence his planning for the future



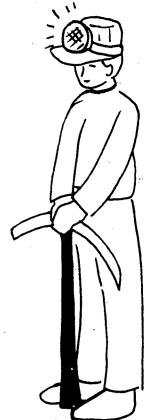
# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

If possible, have students interview a geologist or someone working at a gravel pit

Describe various education required for people who work in geological careers

Rock hound, miner, gemologist, lapidary





I. NAME OF ACTIVITY

ROCK COLLECTION

### II. ACTIVITY FORMAT:

A. Tools and Materials

rocks from home books on rocks

newspaper hammers

vinegar

magnifying glass

B. Human Aides and Resources

Parents

- C. Procedures for this activity (with helpful hints)
  - l. Collect rocks
  - Divide rocks into groups according to similarities of color, shape, material
  - 3. Decide how they were made
  - 4. Crack rocks
  - 5. Using magnifying glass, examine crystals inside
  - 6. Using vinegar, test for limestone
  - 7. Wet rocks to see if they smell like soil or sand
  - 8. Make display of identified rocks
  - 9. Brainstorm on jobs connected with rocks





I. NAME OF ACTIVITY

MAKING A VOLCANO

#### II. ACTIVITY FORMAT:

A. Tools and Materials

flower pot plaster of paris or clay evaporating dish or tin can Ammonium dichromate (from Troy Scientific)

B. Procedures for this activity (with helpful hints)

- Invert flower pot; cover it with clay or plaster of paris
- Extend above the pot to create crater
   a. crater 2"-3" across

b. 1-1/2" deep

- Insert small dish or can surround can with plaster of paris
- 4. Pour one tablespoon of ammonium dichromate into crater
- 5. Hold a match to the armonium dichromate until it lights
- 6. The volcano erupts, shoots sparks into the air and green fluffy material is formed

NOTE: Ventilate room



I. NAME OF ACTIVITY

RESEARCH REPORTS - MOUNTAINS, EARTHQUAKES, VOLCANOES, GLACIERS, GEYSERS AND FAULTS

## II. ACTIVITY FORMAT:

A. Tools and Materials

texts library newspapers

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Students pick one of the 6 topics
  - 2. In each report each student answers these questions:
    - a. How does this change occur?
    - b. How does this change affect the people in the area?
    - c. How are new jobs created when this change occurs?
    - d. What are the jobs created when this change occurs?



I. NAME OF ACTIVITY

MAKING A SEDIMENTARY ROCK (SANDSTONE)

#### II. ACTIVITY FORMAT:

A. Tools and Materials

sand cardboard container plaster of paris

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Put sand in container.
  - 2. Add plaster of paris mix well
  - 3. Add a small amount of water
  - 4. Allow to dry
  - 5. Discuss:
    - a. How sandstone is used
    - b. How sandstone is taken from earth
    - c. Jobs involved with sandstone

# III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

#### Alternate Plan:

- Place soil dampened with sugar water or water into coffee can (or any can with a metal lid available)
- 2. Place lid with compress on it over soil in can
- 3. Twist clamp onto top and bottom of can
- 4. Twist clamp tightly
- 5. Wait a few days until soil is probably dry
- 6. Disassemble clamp
- 7. Carefully remove soil from can
- 8. Observe resulting hardened soil



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# HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

FOSSILS (MAKING)

#### II. ACTIVITY FORMAT:

A. Tools and Materials

modeling clay small milk carton molding plaster

sandpaper vaseline a shell

B. Human Aides and Resources

Parents

- C. Procedures for this activity (with helpful hints)
  - 1. Put a 1/2" layer of clay or plaster on bottom of milk carton
  - 2. Grease remainder of carton with vaseline or oil
  - 3. Press shell into clay; remove shell without disturbing impression
  - 4. Mix plaster and water into thin paste pour into carton
  - 5. When hardened, tear carton, remove plaster block
  - 6. Sandpaper the edges until smooth and straight
  - 7. Discuss what person uses this technique what does his job involve
  - 8. What other jobs use molds and casts to build things



**GEOLOGY** 

# HANDS ON ACTIVITY (STUDENT PERFORMED)

#### I. NAME OF ACTIVITY

GROWING CRYSTALS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

sugar tumbler deep saucer string

B. Human Aides and Resources

Jeweler

- C. Procedures for this activity (with helpful hints)
  - 1. Dissolve as much sugar as possible in a tumbler half filled with hot water
  - 2. Pour solution into deep saucer
  - Put string into saucer, allow some of string to hang over edge
  - 4. Put saucer in quiet corner let evaporate for two days
  - 5. Pour off solution
  - 6. Examine crystals with magnifying glass
  - 7. Discuss how man uses crystals to his advantage
  - 8. Have a jeweler come into room and talk to class about his job and how he works with crystals



## SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

OCEANOGRAPHY

GRADE LEVEL:

5-6



#### TEACHING/LEARNING RESOURCES:

#### 1. Reference materials:

Films: Fortnight at Nine Fathoms

The Sea

Man in the Sea

The Earth: Its Ocean

#### 2. Field Trips:

Diving Equipment Company
Belle Isle Aquarium and Dawsin Museum, Belle Isle
Tropical Fish Store

#### 3. Human Resources:

Parent or school personnel with diving experience

#### 4. Activities:

Design and build a model sea lab - either scale-model or life size

Role playing: Aquanauts Scientists Engineers Biologists

Describing their own part in a sea lab venture

UNIT TITLE: OCEANOGRAPHY

Engineering design

CONCEPTS	BEHAVIORAL OBJECTIVES
Math	As a result of this unit each child will be able to:
<u>racii</u>	
Measurement	Use linear measurement
Geometry	Design using geometric shapes
Ratio	Reduce life-size measurements to scale model
Nautical measurement	Define and demonstrate knots, fathoms
•	
	·
•	
Science	
Marine Biology	Investigate a sea animal or fish of his choice-report to group regarding a) habitat (environment) b) protective devices c) life cycle

Discover, contrast and compare various undersea habitats (sea labs, Tektite II, etc.). Within groups design a sea lab to meet the groups' specification.

# METHOD OF IMPLEMENTATION

within.

## RESOURCE PEOPLE & MATERIALS

Using large boxes, measure and cut according to design group has made of their sea lab

For scale models, reduce design measurement to scale, stating scale used, following same scale throughout Carpenter

Sailor

Using library books, films, filmstrips, shells, starfish, etc., put together a Marine Biology Center. Encourage bringing in collections, books, from home

There are many resource books available on undersea exploration, habitats, sea labs, stress group cooperation

Draw final design with measurements, specifications

Show movie: The Sea

Movie: Man in the Sea

Parent who is an industrial designer, draftsman, engineer to give some direction



UNIT TITLE: OCEANOGRAPHY (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Reports	Prepare written report Deliver report orally using realia, pictures or charts
Letters	Write invitation, thank-you letters to speakers
Interview	Write interview questions and conduct interview
<u>Art</u>	·
Murals	Prepare and produce a group mural of a) undersea life b) undersea exploration vehicles

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Design stationery with sea life theme	Art teacher
Thank-you letter may be written with one or two sentences from each student rather than individual letters: requires cooperation and reading what has been written beforehand	
May interview parents with diving hobbies, tropical fish owners, fish store owners, speakers for class newsletter or school paper	
	Te.
Using dark or medium blue background paper or flocked paper, sketch first with pencil then finish with chalks, crayons, paints or whatever medium-group decides	



UNIT TITLE: OCEANOCRAPHY (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
•	
Career Awareness	
People and their job roles:	
Scuba diving and snorkeling (as hobbies) Scuba diving (professional)	Recognize and cite evidence for scuba diving as hobby, snorkeling as hobby
Equipment sales	List and discuss equipment and related paraphenalia, interview sales manager, discuss job requirements and related careers
Swimming, Diving coaches	Interview diving teacher, discuss job requirements, roles
Aquarium employees	Examine roles of different types of aquarium workers
Aquarium sales	Discuss careers with owner, manager, sales- people
Marine biology	Interview a marine biologist, examine roles of aquanauts, marine biologists
Self-Awareness	



Awareness of others

Give a specific example of something you learned about a person from observing that person's activities

# METHOD OF IMPLEMENTATION

## RESOURCE PEOPLE & MATERIALS

Have resource person demonstrate equipment needed for hobby and any prerequisites for diving

Visiting diving sales outlet. Manager should be available for interview, discussion, demonstration

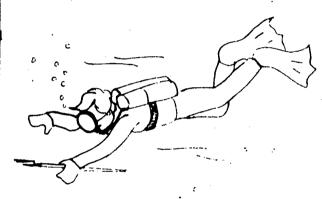
Have diving teacher come in, or visit store which sells equipment and gives lessons (check YMCA also)

Visit Aquarium at Belle Isle - discuss roles with any available employees

Visit local tropical fish or aquarium sales store

See movie Fortnight at Nine Fathoms for insight into lives of aquanauts, scientists, biologists
Read comic book Popeye, Marine Science
Careers

Sailor, frogman, diver



Marine biologist

Interviewing various people in oceanographical careers

Sailor, frogman, deep sea diver, marine biologist



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#### HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

BUILDING A SEA LAB

#### II. ACTIVITY FORMAT:

A. Tools and Materials

refrigerator boxes or large cartons scissors exacto knives rulers pencils paints

B. Human Aides and Resources

Books on undersea habitats

C. Procedures for this activity (with helpful hints)

Divide into groups. Each decides whether to make large or scale model habitat. Using resource books, each group designs its own Sea Lab on paper, carries design over onto cardboard, cuts and assembles. This can be as simple or complex as group desires. "Full size" sea labs may be large enough for 2 or 3 students. They may include portholes, entry-ways, "pressure gauges," and any other equipment group decides on.





# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

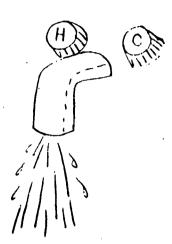
# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

WATER

GRADE LEVEL:

6



#### TEACHING/LEARNING RESOURCES:

Reference materials:

Pamphlets from water authority

<u>Children & Technology</u>, Scobey

<u>Science 6</u>, Mallinson, Silver-Burdett

2. Field Trips:

Camping at Island Lake Camp (by Huron River)
Trip to pumping station in Berkley
Visit Oakland County Water Authority
Visit to Kent Lake, Dam and ponds

3. Human Resources:

Guide from Oakland County Water Authority

4. Activities:

Measuring water pressure
Constructing water wheel
Tracing source of Mississippi River
Experimenting with beans to show that they need water
Reconstitution of dried fruit
Brainstorming - concentrating on uses of water

UNIT TITLE: WATER

ICEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
cial Sciences	
Irrigation	Propose and defend reasons for irrigation
Water supply	Identify the variables connected with the water supply in various parts of the world
•	
<u>ience</u>	
Water cycle	Identify and discuss critically the variables in the water cycle
Water pressure	Discover and list uses of water pressure
Water purification	Propose and defend reasons for the necessity of water purification
	Identify and discuss methods of water purification
<u>th</u>	
Measurement	Gather data from home on the amount of water required in each student's home
Computation	Compute from information gathered, amount of water used by entire class for one day
	Compute water needed for individual operations (i.e., washing dishes, washing clothes, watering lawn, etc.)
Computation	of water used by entire class f Compute water needed for indivi operations (i.e., washing dishe



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Science, social science texts, related reference books on agriculture studied	
Science texts, pamphlets (some available	
from Water Department) studied	
Read water meters in home	Meter reader
Measure water used in home activities	



UNIT TITLE: WATER (Continued)

ONCEPTS .	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
communication Skills	<b>.</b>
Research	Gather data for reports from various sources on one water property
Writing	Write report on one physical property of water
Spelling	Identify and use properly spelling words associated with water
Career Awareness	
People and their job roles	List occupations relating to water
	Identify and describe the role of a sewer, piper and layer
Managing	Identify the management practices that are utilized by the water department
Servicing	Discuss critically the services concerned with water purification
	Identify and differentiate between methods of water testing
	Propose and defend reasons for the necessity of a plumber
Hiring	Role play a prospective employee being interviewed for a job as a meter reader
Self-Awareness	
Awareness of others	Evaluate the usefulness of observing people's activities as a source of information by comparing your conclusions about a person's feelings or interests, based on his activities with his own perceptions of his feelings or



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
	•
	·
Research science texts and reference books on water	
	. •
• •	
Guest speakers	Water Department official
Brainstorming on water supply from source to sonsumer	Plumber
Brainstorming on problems associated with water supply	Meter reader
	Plumber
Propose and defend reasons for the necessity of a plumber	



I. NAME OF ACTIVITY

EXPERIMENTING WITH BEANS SHOWING NECESSITY OF WATER

#### II. ACTIVITY FORMAT:

A. Tools and Materials

various beans pans paper toweling water

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Put beans in pan with some wet paper toweling
  - 2. Observe beans for a couple days
  - 3. Record findings
  - 4. Beans will sprout in 2-3 days

#### I. NAME OF ACTIVITY

WATER PRESSURE
CONSTRUCT A WATER WHEEL (See Children & Technology by Scobey, p. 370)

#### II. ACTIVITY FORMAT:

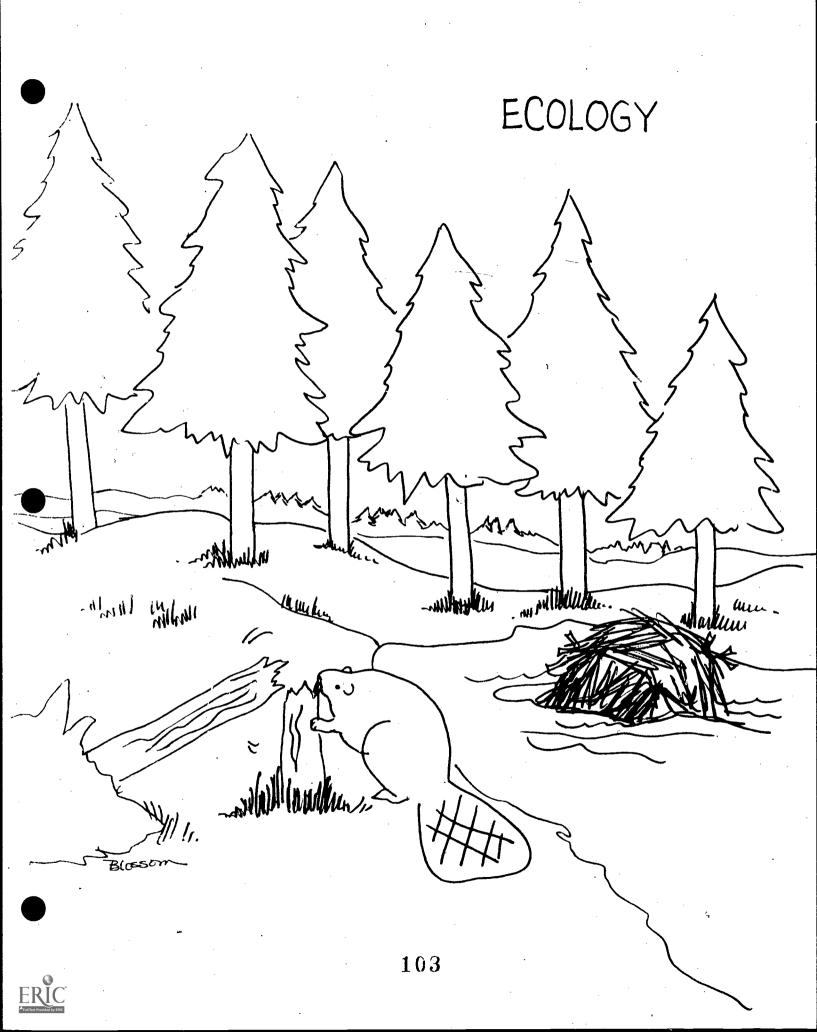
A. Tools and Materials

five gallon can water corks

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)

Punch three holes in the can; one, a quarter of the way down from the top; one, half way down; one, three-quarters of the way down. Put corks in the holes and fill the can with water. Pull the three corks and observe the length of the spout of water from each hole.





#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

**EC**OLOGY

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

In this Ecology section, the following integrated teaching units have been combined and/or presented as a tentative guide for ideas, in application to or relevance to the upper elementary classroom:

1. Plants in Our Society

2. Interdependence of Living Things

3. Pride in Property

#### TEACHING/LEARNING RESOURCES:

#### Reference materials:

Plants -

Books:

You Visit a Sparhetti Factory and Bakery

Your Votid - We Visit a Bakery

Science for the Elementary School - Victor, pp. 343-44

World Book Encyclopedia

Films:

Bakery Beat

Color of Life

Conserving Our Soil Today Understanding Our Earth:Soil Let's Watch Plants Grow

Di . Mi . C . I .

Plants That Grow From Leaves, Stems and Roots

Interdependence -

Science for Today and Tomorrow, Scheider - pp.82-95

Books: The Birth and Growth of a Tree - p.120

How Birds Keep Warm in Winter - p.232

The Quail - p. 98

Something Told the Wild Geese - p. 173

Sounds of a Distant Drum Sounds of a Mystery A Tree Called Moses

Trees Alone Do Not Make a Forest

Wild Flowers of Michigan

Charts:

Audubon Nature Charts - Bird Migration

Audubon Nature charts:

1. Common North American Evergreens

2. Common Seed Travelers

3. Forest Food Chains

Map of North America for each student



4. Leaves of Common Trees - Compound

5. Leaves of Common Trees - Simple

6. Twigs of Common Trees

Birds of North America

Birds of Prey Growth of a Tree

Products of the Tree Farm

Winter Birds

Films:

ABC's of Tools Birds in Winter Cry of the Marsh Discovering the Forest

Maps are Fun Nature's Half Acre

Film-

strips:

Forests: A Stable Community

Helping the Birds How Birds Serve Man Learning About Birds Life in the Forests Looking at Birds Migration of Birds

Observing Birds in Nature

Primeval Forests Telling Trees Apart

Trees

Using Forests Wisely Walk in the Woods What is a Bud

Flat

Pictures: Common Birds

Forests

Traveling with the Birds

#### 2. Field Trips:

Plants -

Bordines-Kensington Island Lake
Belle Isle Aquarium (Food cycle)
Belle Isle Botanical Garden
Quickstad Park - Royal Oak
Seven Ponds Nature Center - Dryden, Michigan
S.E.O.V.E.C.
Stoney Creek Nature Center and Trails

Interdependence -

Cranbrook Science Auseum (edology exhibit) and Nature Center Cumingston Park
Pet Store
Poultry Farm
Slaughter House
Trip to ranch for cows; (tron; speep; Wogs; etc.
University of Michigan Science Mineum



Various housing projects Veterinarian farm visit Veterinary Clinic

#### 3. Human Resources:

#### Plants -

Bird Bander
Consumers Power (Mr. Hanson)
Forester
S.E.O.V.E.C. Horticulturist
Naturalists at Seven Ponds
Nature Center-Bordines,
Manager
Florist

M.C.C. students
Parent
S.E.O.V.E.C. Food Services
Coast Guard Cook
Mr. & Mrs. Fischer, Teachers Wheat Flour Institute, 14 E.
Jackson Blvd., Chicago, Ill. 60604
Zimmerman Apple Farm, 14 Mi. & Telegraph

#### Interdependence -

Bird Identification - Ms.
Erickson, teacher
Botanists
Landscapers
Naturalists
Conservationists-Land
reclamation at gravel pitsMr. Clark

Carpenters
Lumberjacks
Poultry farmers
Florists
Farmers
Ranchers
Herders

#### 4. <u>Activities</u>:

#### Plants -

Starting plants from seeds Controlled experiments for testing good growing conditions Making boxes for plants Writing reports on plants Planting gardens
Building model bakery
Planting wheat in boxes
Baking rolls
Baking homemade bread

#### Interdependence -

Role playing:
Role of herder, with class as herd
Role of farmer, etc., at auction to buy or sell animals
Role of animal "keeper" as the role varies geographically
Draw basic structure of a lird
Building bird feeder and bird shelter
Study plants and animals in relation to environment and ecology

#### Pride in Property -

Clean up school:
 flower beds
 playground
Plant new flowers
Make bricks to be used in flower beds
Refinish wooden top desks
Cleaning off formica top desks



UNIT TITLE: PLANTS

ONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be
	able to:
Social Sciences	
Industrial plant use	List five ways in which plants are used in industry
•	Describe economic importance of growing things
How people use plants	Give five examples of the effect of plant life on man's development and social patterns
	List five ways in which people use plants
Ecology (cleanup)	Justify reasons for cleanup of classroom or work area when activity is completed
Geography	Locate environment in North America for
	specific birds and trees
<u>Science</u>	specific birds and trees
Science Plant taxonomy	
<del></del>	List the parts and functions of flowering
<del></del>	List the parts and functions of flowering plants (e.g., wheat) from a poster
<del></del>	List the parts and functions of flowering plants (e.g., wheat) from a poster  List three plants used for medicinal purposes
<del></del>	List the parts and functions of flowering plants (e.g., wheat) from a poster  List three plants used for medicinal purposes  List 10 plants used as food crops  List five green plants and five non-green
Science Plant taxonomy	List the parts and functions of flowering plants (e.g., wheat) from a poster  List three plants used for medicinal purposes  List 10 plants used as food crops  List five green plants and five non-green plants  Distinguish between simple and complex



#### METHOD OF IMPLEMENTATION

#### RESOURCE PEOPLE & MATERIALS

Make paper in small groups. First group led by teacher. Group members then become other groups' leaders

Writing reports on plants

Planting gardens-test different growing conditions

Making boxes for plants

Make posters showing plant uses

. Make caramel apples

Bake rolls on an assembly line

Research and write a report concerning a specific bird and a specific tree

Plant wheat and observe growth

Study processing of wheat from seed to flour

Games - match terms with pictures

Write a report on plants or seeds, identifying locale, climate, uses and effects of that plant or seed

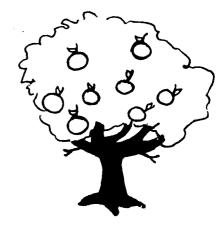
Write a paragraph listing reasons for man's use of taxonomy

Make a chart classifying and identifying various plant types

Controlled experiments for testing good growing conditions

Starting plants from seeds

Zimmerman apple farm to make apple pie





UNIT TITLE: PLANTS (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Science (Cont)	
Plant growth	Identify the variables in growing plants Recognize how green plants make their own food Describe the process by which plants produce carbon dioxide Describe various methods of plant repro- duction Differentiate between traits of plants grown in different areas
Local plant and animal life	Identify at least one local tree in two different seasons Identify at least one local bird
Communication Skills	
Research	Organize ideas into a theme  Locate information about subject under study in library
Following directions	Interpret and apply written instructions
Oral discussions	Oral summary of a field trip Describe orally plant-animal dependence and relationships
Listening skills	Associate five sounds with symbols for functional word analysis
Writing	Write a thank-you letter Write for information about wild flowers Write a summary of a field trip
Reading	Demonstrate reading independence Demonstrate application of reading skills in planning Relate supporting details and ideas to main topic
Spe <b>llin</b> g	Develop a new vocabulary of at least three words
Grammar	Use principles of syllabication



#### METHOD OF IMPLEMENTATION

#### RESOURCE PEOPLE & MATERIALS

191

Experiment with various growing conditions and observe results of growth Planting wheat in boxes
Use Science 5 and transparencies to study photosynthesis
Various class groups learn about different locales
Exchange plant locales

Agriculturalist Botantist Gardener

Field trip to local park

Gardener Nursery agent

Writing reports on plants
Write thank-you notes to dirvers for field trips
Write for information on field trips

Write a report in paragraphs

Use dictionaries, texts and glossaries to analyze vocabulary under study



UNIT ITTLE: PLANTS (Continued)

NCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Mathematics	
Measurement	Measure wood for planter from a large piece Measure ingredients for baking rolls Measure designated amounts of soil, water, plant food Use liquid measurements Use linear measurements Use metric measurements Identify/compute nutrients supplied by various plant foods
Career Awareness	
People and their job roles:	Describe five jobs related to the world of plants
Hiring Training Working conditions	Describe two steps involved in being hired for a job
Self-Awareness	
Identification of personal values	Describe two characteristics that you would look for in a job if you were looking for a job and identify the values reflected in those objectives



•	
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
;	
	,
Baking rolls	
Baking homemade bread	,
Starting plants from seeds	
Planting gardens Making boxes for plants	
parado dener der parado	
	-
Visit a nature center	Naturalists at 7 Ponds Nature Center
	Talked with people at S.E.O.V.E.C. on field trip
	Forester
	Bird Bander
	Teacher
	Compass reader
Describe two steps involved in being hire for a job	d Guidance counselor . Personnel office worker
	·



I. NAME OF ACTIVITY

PLANTING AND GROWING SEEDS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

seeds (lima, radish, bean) blotters soil charts to show growth

vaseline aluminum foil water

B. Human Aides and Resources

Teacher Parents

C. Procedures for this activity (with helpful hints)

1. Give seeds to students

2. Let them experiment with many different growing conditions

3. Have them keep a chart of the growth and changes in the seeds (plants)

4. Discuss with class the conditions they found best for growth - then discuss greenhouses

#### I. NAME OF ACTIVITY

BAKING ROLLS

A. (Recipe follows for Quick Yeast Bread) or B. Recipe from Better Homes and Gardens New Cook Book

#### II. ACTIVITY FORMAT:

A. Tools and Materials

mixing bowls
measuring cup
measuring spoons
sauce pan

knife

wire mixer baking pans

B: Human Aides and Resources

two mothers

baked

or

Choose supervisor and foreman from

C. Procedures for this activity (with helpful hints)

Recipe A 
The class was divided into two groups, and a mother worked with each group, showing them separately how the dough was made and

I. NAME OF ACTIVITY.

HOMEMADE BREAD

35.

#### II. ACTIVITY FORMAT:

A. Tools and Materials

ingredients
bowls
dish cloths

mixing spoons measuring spoons, cups

B. Human Aides and Resources

3 mothers

- C. Procedures for this activity (with helpful hints)
  - 1. Recipe (attached) makes 2 loaves, divide into groups of 2. Each group brings a set of measuring cups, spoons, a wooden spoon, one large bowl and one small bowl. Each child brings one bread pan and a clean dish cloth to cover bread while rising.
  - 2. If you begin making the bread by 9:00 a.m., the second rising will take place during lunch, and you can bake the bread by 2:00 p.m.



#### HOMEMADE BREAD

2 cups milk
3 T. sugar
1 T. salt
1/2 cup margarine or butter
1/2 cup warm water (105-115 F.)
2 pkg. active dry yeast
6-1/2 to 7 cups sifted all-purpose flour
2 T. melted butter

- 1. In small sauce pan, heat milk just until bubbles form around edge of pan. Remove from heat, pour in small bowl. Add sugar, salt and 1/2 cup butter. Stir until butter is melted. Let cool to lukewarm.
- 2. Pour water into large bowl. Sprinkle yeast over water in large bowl, stirring until dissolved. Stir in milk mixture.
- 3. Add half your flour, beat with your mixing spoon until smooth about 2 minutes.
- 4. Gradually add remaining flour, mixing it in with hand until dough is stiff enough to leave side of bowl.
- 5. Turn out dough on your LIGHTLY FLOURED table, cover with bowl; let rest 10 minutes.
  - 6. Knead dough for ten minutes.
  - 7. Place dough in SLIGHTLY GREASED bowl, turn dough around so greased side is up. Cover with your towel. Let rise in warm place until double in bulk, or about one hour.
  - 8. Punch down dough with fist. Turn dough onto SLIGHTLY FLOURED table. Divide in half, shape each half into a ball. Cover with towel, let rise ten minutes.
  - 9. Stretch dough until it is about 27 inches long (3 times as long as pan in which it will be baked.)
  - 10. Fold dough in thirds, pressing or rolling any air pockets until dough is a 7 inch square.
  - 11. Fold dough into thirds pressing to remove any air pockets. Seal edge and ends of loaf by pinching together. Roll load to smooth it. Place in SLIGHTLY GREASED pan.
- 12. Brush loaf with melted butter. Cover with towel, let rise until double in bulk about one hour.
- 13. Bake 40 to 50 minutes at 400 F. Cool on racks.



#### BASIC ROLL DOUGH (From Better Homes and Gardens New Cook Book)

1 package active dry yeast
1/4 cup warm water
1 cup milk, scalded
1/4 cup sugar
1/4 cup shortening
1 teaspoon salt
3-1/2 cups sifted all-purpose flour
1 egg

#### METHOD

Soften yeast in warm water (110 degrees). Combine milk, sugar, shortening and salt; cool to lukewarm. Add 1-1/2 cups of flour; beat well. Beat in yeast and egg. Gradually add remaining flour to form soft dough, beating well. Place in greased bowl, turning once to grease surface. Cover and let rise until double (1-1/2 to 2 hours).

Turn out on lightly greased surface and shape as desired. Cover and let shaped rolls rise till double (30-45 min.). Bake on greased baking sheet or in greased muffin pans for 12-15 min. in 400 degree oven. Makes 2 dozen cloverleafs, butter fans or bowknots, or 3 dozen parker house.

NOTE: This takes all day. We started at 8:30 -- ate rolls at 3:00. Also made homemade butter. Computed cost. Make sure you are well organized.



#### I. NAME OF ACTIVITY

CONSTRUCTION OF PLANTER BOXES

#### II. ACTIVITY FORMAT:

A. Tools and Materials

saws nails hammers lumber

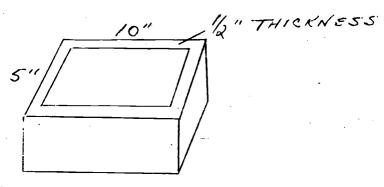
B. Human Aides and Resources

Students from M.C.C. Irene Mann

C. Procedures for this activity (with helpful hints) .

The planter boxes should be lined with plastic sheeting to prevent leakage and rotting of wood. The plastic was stapled into the inside of the boxes.

(Get order from Irene Mann)



#### Diversion:

#### Assembly line

- 1. Measure and mark dimensions
- 2. Saw wood
- 3. 5" to 10" sides assembled
- 4. Bottom assembled
- 5. Sand box sides

- 6. Inspect
- 7. Measure plastic sheeting
- 8. Cut plastic sheet
- 9. Line box inspect
- 10. Paint box inspect

#### I. NAME OF ACTIVITY

MAKING BOXES TO SHOW VARIOUS SOIL PRACTICES

#### II. ACTIVITY FORMAT:

A. Tools and Materials

saws scissors screening tools soil glass jars with metal tops putty knife wood

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Cut wood into pieces to construct a box, open at one end, which is 30 in. long, 9 in. wide, and 6 in. deep
  - 2. Nail screening to open end
  - 3. Seal sides with putty to make watertight
  - 4. Fill boxes with soil and experiment with these concepts:
    - a) loose soil erodes more than packed soil
    - b) the steeper the slope, the greater the erosion
    - c) contour plowing reduces erosion
    - d) terracing reduces erosion
  - Make watering cans from glass jars with metal tops punch holes in top





UNIT TITLE: INTERDEPENDENCE OF LIVING THINGS

<del></del>	
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Sciences	
Domestication of animals	List one product (other than meat) of each domesticated animal under study
	Match a farm animal with a U.S. geographic area where the animal is most prominent
Birds	Identify local birds, their migration patterns, food and aesthetic value
Interdependence of plants and animals	Discuss the interdependence of society of living things for food, construction, transportation, medicine and protection
	List ways trees are used by man
	Recognize and cite evidence for care of living things unable to protect themselves
	<u> </u>
Science	
Classification	Identify locally grown trees and describe their assistance in soil composition
Birds	State the food and shelter requirements of various types of birds (local, birds of prey, carrion-eaters).
Interdependence of plants and animals	Describe plant-animal dependencies and relationships (food, protection, trans-



portation)

Films, books on agriculture studied Maps of agricultural areas displayed  Building a bird feeder	Rancher, farmer
Films, books on agriculture studied Maps of agricultural areas displayed	Rancher, farmer
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Maps of agricultural areas displayed	Rancher, farmer
Maps of agricultural areas displayed	Rancher, farmer
Maps of agricultural areas displayed	Rancher, farmer
Building a bird feeder	
Building a bird feeder	
Building a bird feeder	
Saliding a bild feedel	
Study plants and animals in relation to environment and ecology	
chivilonment and ecology	
	· .
	·
Draw basic structure of a bird	Anatomist
Building a bird feeder	
Study plants and animals in relation to environment and ecology	

#### NIT TITLE: INTERDEPENDENCE OF LIVING THINGS (Continued)

,	
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Writing	Write a thank-you letter to guest speakers
	Write a report on the interdependence of living things
Discussion and listening skills	Discuss the interdependence of the society of living things for food, construction, transportation, protection, and medicine
Career Awareness	
People and their job roles:	
Producing and retailing	List three occupations whose products rely on our outdoor environment
	List three service occupations which rely on our outdoor environment
	Discuss processes involved in changing raw materials into finished products
	Build a model bakery, showing different departments anded for production
	Identify two raw materials grown on the earth and two raw materials taken from the earth
	Pre-process a product or purchase and receive a product or store and preserve a product
	Process a product (from paper, or separate wood from animal products, or combine different woods)
	Package a product, including containerizing, binding, coating or preserving and labeling
Personnel	State the qualifications for the following occupations: botanists, landscapers, naturalists, conservationists, carpenters, lumberjacks, poultry farmers, florists



#### METHOD OF IMPLEMENTATION

#### RESOURCE PEOPLE & MATERIALS

Examine various forms of letter writing
Write letters to the guest speaker

Role play a herder, with class as herd Role play a farmer Role play a rancher at an auction to buy or sell animals Role of animal "keeper" with role varying geographically Construction of a model bakery

Agriculturalist Nursery men Gardener Florist Lumberjack



UNIT TITLE: INTERDEPENDENCE OF LIVING THINGS (Continued)

CONCEPTS

#### BEHAVIORAL OBJECTIVES

#### Career Awareness (Cont.)

Personnel

Describe the steps involved in being hired for a job

State the education needed to be a veterinarian

Differentiate between the roles of farmers, ranchers, herders in relationship to animals

State the roles of processors in marketing

#### Self-Awareness

Facilitating personalized planning and decision-making

Give an example of how a person's knowledge of his skills and interests can influence his planning for the future



#### METHOD OF IMPLEMENTATION

#### RESOURCE PEOPLE & MATERIALS

Write for college catalogs or check in public library for educational requirements

If possible, interview a veterinarian

Personnel worker

Role play personnel department's interviews for a job; discussions of various roles in production and retailing, management Personnel worker



I. NAME OF ACTIVITY

MAKING BIRD FEEDERS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

saws hammers stain sandpaper wood files varnish

B. Human Aides and Resources

Parents - two parent volunteers (preferably men)

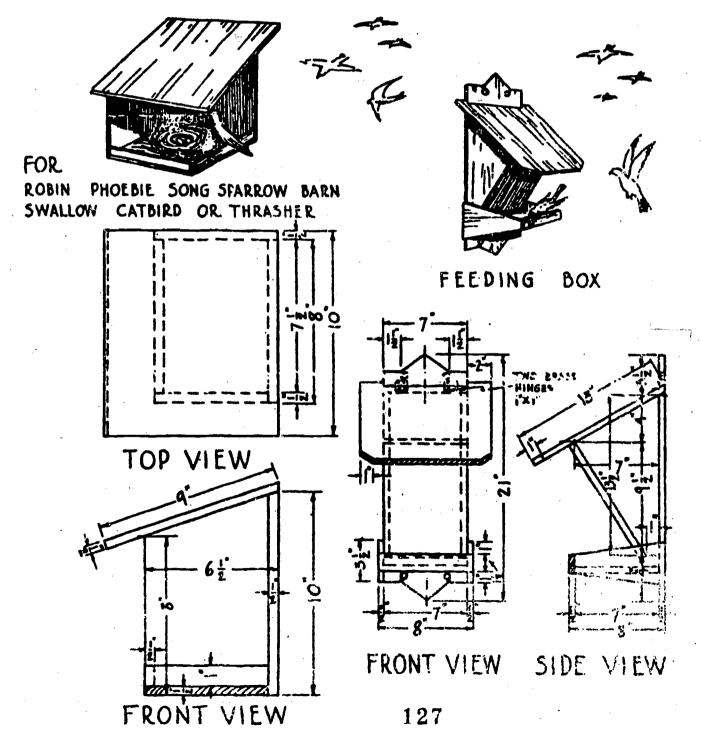
C. Procedures for this activity (with helpful hints)

Class discussion and resulting decision on whether feeders are to be constructed by individual, pair of students, small group or mass production method

Class decided feeders to be produced via mass production
Teacher acts as group coordinator
Adult works with measuring group
Adult works with cutting group
Adult works with constructing group
Adult works with rough finishing group (filing and sanding)
All groups participate in final staining and varnishing

### INTERDEPENDENCE

## NESTING SHELTER-FEEDING BOX PROJECT NO. C71





## UNIT TITLE: PRIDE IN PROPERTY

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Sciences	Give reasons justifying the beautification of courtyard
Property pride	Recognize and cite evidence for neat- ness as being a desirable quality of mutually-held property
Cooperation	Recognize and cite evidence for team- work as being a requisite in keeping mutually-held property neat
Science	
Changing material appearance	Refinish a desk following given directions
	Plant tulips and crocus in the fall
Communication Skills	
Listening skills	
Following directions	Eanipulate materials for refinishing desks following given directions
	<b>12</b> 8



METHOD OF IMPLEMENTATION		RESOURCE PEOPLE & MAT	ERIALS
		<u>*************************************</u>	
			•
Clean up school		Custodian	
Flower beds	1	Maintenance man	
Playground			
Plant new flowers		·	• *
Make bricks for use in flower beds Weed lawn	.		
Plant grass seed	1	-	
Built stone wall for shrubs	1		
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			~ ·
•	1		
•	1		
Refinish wooden desk tops			
Cleaning formica desk tops	. [		
Prepare soil, fertilize and plant seeds	ł		•
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State directions clearly

UNIT TITLE: PRIDE IN PROPERTY (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Measurement	Measure sandpaper and varnish needed to refinish a desk
	Plan a balanced, symmetrical wall of stone or brick
Career Awareness	
People and their job roles:	
Personnel	State qualifications needed for carpentry
	State educational requirements of nursery men
Self-Awareness	
Building self-confidence	Describe how you feel when you have done something well
	Describe how knowing what you can and can't do well affects your attitudes and behavior



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERI	ALS
	·	
•		
Provide needed sandpaper and varnish		
		,
Interview people in these careers  Check vocational school if in the community	Custodian Nursery man Carpenter	
	Gardener	
		. · 
Sanding, refinishing desks	Custodian	
Sanding, refinishing desks Planting flowers	Custodian Nursery man Carpenter	
Sanding, refinishing desks	Custodian Nursery man	
Sanding, refinishing desks Planting flowers	Custodian Nursery man Carpenter	
Sanding, refinishing desks Planting flowers	Custodian Nursery man Carpenter	
Sanding, refinishing desks Planting flowers	Custodian Nursery man Carpenter	
Sanding, refinishing desks Planting flowers	Custodian Nursery man Carpenter	

I. NAME OF ACTIVITY

MAKING BRICKS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

motor oil/brush

cement

brick molds

rulers

containers

boards trowels measuring cup wooden spoon or stick

B. Human Aides and Resources

Teachers, parents, college students, LRT

- C. Procedures for this activity (with helpful hints)
  - Mix concrete in containers by measuring 4 cups cement to 2 cups water. (should be the consistency of dough)
  - 2. Brush inside of mold with oil
  - 3. Pour mixture in mold let set for about 1 hour or until mixture will not push in
  - 4. Take brick out of mold and let set until hard



I. NAME OF ACTIVITY

REFINISHING WOODEN TOP DESKS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

sandpaper - coarse sandpaper - fine varnish (we used special sealer with custodian)

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Plan activity
  - 2. Sand desks
    - a) groups of two or three
    - b) as other completed work helped others
  - 3. Switch to fine sandpaper
  - 4. Custodian (in this case) use electric sander to get difficult spots
  - 5. Varnish with a sealer

#### III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



**O** 

I. NAME OF ACTIVITY

PLANTING BULBS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

hoe
water sprinkling can
spade
flower bulbs

fertilizer screening for protection of garden tongue depressers to label experiments

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Plant bulbs in 4 areas around school
    - a) Area 1 Geraniums, fertilizer, water, no light or locus seeds
- outside b) Area 2 Geraniums, fertilizer, light, no water
  - c) Area 3 Geraniums, light, water, and fertilizer
  - d) Area 4 Different kind of flower, light, water, fertilizer
- inside e) Area 5 Geraniums, light, water, fertilizer
  - f) Area 6 Geraniums, water, fertilizer, no light
  - 2. Weekly graph growth of flowers
  - Group reports to class on results



EXPLORATION OF CREATIVE WRITING FORMS



#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

## INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

EXPLORATION OF CREATIVE WRITING FORMS

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

The purpose of this unit is to introduce the child to the different forms of writing (mythology, legends, and tales). The child will then compose his own myth, legend

or talės.

#### TEACHING/LEARNING RESOURCES:

1. Field Trips:

See a play and go backstage - lighting, make-up, costumes, sets, etc.

2. Human Resources:

Puppeteer Make-up artists

3. Activities:

Narration and dramatization
Produce and present a play for a school assembly



UNIT TITLE:

EXPLORATION OF CREATIVE WRITING FORMS

DNCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit each child will be able to:
Communication Skills	
Story writing Creative writing	Write a story for play adaptation
Story classification	Classify the story into the category of myth, tale, or legend
Dramatization	Differentiate between narration and dramatization
Narration	
	•
	·
Math	·
Measurement and Proportion	Construct a stage Devise a curtain system Use of tools in measurement
Art	Marie 1970. W
Creativity and Set Design	Plan designs for stage props appropriate to the play



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Writing of original plays	
Discuss different categories of stories and read an appropriate example of each	
Students should try to classify a few stories on their own	
·	
Make a stage for puppets	
·	
Construct stage props	Set designer Interior decorator
•	



UNII TITLE:

EXPLORATION OF CREATIVE WRITING FORMS (continued)

NCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child
	will be able to:
Career Awareness	
People and their job roles:	Identify different types of work related to theater:
Producing	Stage production - Carpentry
Managing	Play production - Puppetry
Servicing	Costuming Tailoring
	Make-up Writing
	Producers, Directors
	Ushers, stage crew, doorman
e de la companya de l	

Recognizing amotions and attitudes in self

Given a situation in which you and another person are interacting, describe how you feel

Identify two ways that you indicate each of the following emotions: happiness, sorrow, anger, excitement



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Attend play and go backstage to interview behind-the-scenes workers	Actor Make-up man Cosmetologist
·	
Write a play Act in a play	Author Composer Actor

30

#### HANDS ON ACTIVITY (STUDENT PERFORMED)

#### I. NAME OF ACTIVITY

MAKE STAGE FOR PUPPETS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

1/2" plywood (2 sheets 4 by 6)

1 saber saw 2 screen hooks

4 door hinges Measure

Washers Screw driver

Nuts and bolts Electric drill

Curtain rods Sand paper

Stain Material for curtains

Pliers

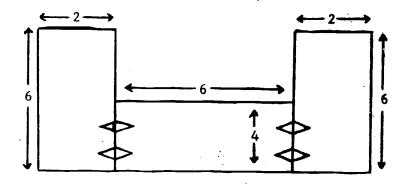
B. Human Aides and Resources:

One teacher aide

C. Procedure for this activity (with helpful hints)

Cut one sheet of 4' by 6' into two 2' x 6' sheets (sand and stain) Put hinges approximately 6" from bottom and top of middle 4' by 6' sheet

Drill holes, attach hinges and curtain rods



I. NAME OF ACTIVITY:

MAKE PUPPETS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Pattern - shown below Sewing maching Percale - 6 yards Glue

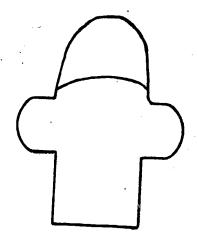
Scissors ....

Felt and fabric scraps

Needle and thread

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)

  Make pattern to fit largest hand in class



I. NAME OF ACTIVITY:

WRITING OF ORIGINAL PLAYS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Pencil Paper

B. Human Aides and Resources

None

C. Procedures for this activity (with helpful hints)

Children listened to examples of effective dialogue.

Children were encouraged to act out plays, revise during acting, and use constant feed-back to polish final scripts.



# GRAPHIC COMMUNICATIONS BOOKS AND NEWSPAPERS



### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

Graphic Communications - Books and Newspapers

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

This unit encompasses the making of paper, books and

newspapers.

## TEACHING/LEARNING RESOURCES:

1. Reference materials: Films, filmstrips, loops, books, etc.

Books: The Papermakers: Teaching Children About Technology

How Paper is Made
The Magic of Paper

More Experiments in Science

The Printers

Printing as a Hobby

Communication: From Cave Writing to TV

Kits: Activity Cards - Detroit News

Daily Detroit News delivered two weeks

Detroit News Classroom Kit

Films: From Trees to Books

Filmstrips: The Book

Egypt I

Handwritten Books

History of Printed Books

How Books Are Made

Paper Industry - The Paper Mill

Paper Industry - Trees in the Forest

Story of Paper

### 2. Field Trips:

Detroit News
Royal Oak Board Printing Office
Royal Oak Public Library
S.E.O.V.E.C. Print Shop



### Human Resources:

Detroit News - Director of Education

- Public Relations

- Guide

Public Library Librarian

# Activities:

Books:

Producing hardbound books individually Mass-producing hardbound books'

- 1. Assembly line production
- 2. Composing stories
- 3. Illustrating stories
- 4. Acting out occupational concepts

Newspaper: Making paper Block printing

.. Activities from Detroit News kit

Role playing

- 1. Early Egyptian paper maker
- 2. Early scribe
- 3. Early historic picture writer in caves
- 4. Cartoonists

Current events

Production of school newspaper

- 1. Future writer
- 2. Write news story for TV
- 3. Print stories

Job application





HINT! TITLE: GRAPHIC COMMUNICATIONS - BOOKS AND NEWSPAPERS

CONCEPTS	BEHAVIORAL OBJECTIVES	
	As a result of this unit, each child will be able to:	
Social Sciences		
History	Recall notable achievements in the history of paper making.	
Economics	Use money and prepare change Compute cost and profits of selling published newspapers Understand the concept of "salaries"	
Communications	Identify four services provided the public by newspapers	
Science		
Change of state	Relate a graphic description of the process of making newsprint from wood and water	
Math		
Measurement	Measure with ruler the dimensions of booklets on oak tag Measure a 6 inch by 9 inch piece of cardboard with a ruler Measure an 11 inch by 17 inch piece of paper into two 5½ inch by 8½ inch sections	
Quantity	Count the amount of paper needed for making books  Do math activities in Detroit News Kit	



	METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
_		
	Make paper Role playing - Early Egyptian paper making	
zd	Production of classroom or school newspaper	
	Making paper Role playing - Early Egyptian paper making	
	Producing hardbound books individually	
	· · · · · · · · · · · · · · · · · · ·	
	Mass-producing hardbound books Producing hardbound books individually Do activities in Detroit News Kit	



UNIT TITLE: GRAPHIC COMMUNICATIONS - BOOKS AND NEWSPAPERS

# CONCEPTS

# BEHAVIORAL OBJECTIVES

As a result of this unit, each child

will be able to:

them

# Communication Skills

Reading

Writing

Listening

Speaking

Spelling

Gramma.r

Do activities according to written directions
Discuss current news events after reading

Compose and write an original story; or given Robert Martin's <u>Haunted House</u> orally, change the ending of the story, with either composition being limited in content to the physical confines of the space in the pupil's manufactured book

Compose and write an original Christmas story of no less than 50 and no more than 300 words Apply creativity or originality in Christmas stories Write a thank-you note to a guest speaker Write a news story Devise a headline for a news story

Do activities according to spoken directions

Use continuity in storytelling Discuss the format of a news story

Spell correctly and define 90% of newspaper terms used in unit study Identify ten meanings of a list of twenty newspaper terms

Apply the 5 basic w's (who, what, where, when, why) in newspaper paragraph Identify and correct 4 mistakes in a given sample news story containing 5 mistakes



# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

Discuss current events Produce classroom or school newspaper

Produce hardbound books individually Mass-produce hardbound books

Produce classroom or school newspaper

Produce hardbound books individually

Mass-produce hardbound books

Produce classroom or school newspaper

UNIT TITLE: GRAPHIC COMMUNICATIONS - BOOKS AND NEWSPAPERS

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
<u>Art</u>	
Illustrating	Illustrate, with at least 4 pictures (3 inch by 4 inch minimum size), a Christmas story written in a book with 8 pages (4 folded sheets
Career Awareness	
People and their job roles:	
Research  Production	Devise a plan for producing books in class Prepare patterns for shape and size of
	booklet covers manufacture, with materials made equally and sufficiently available by the teacher to all pupils, a hardbound book, liner page and 8 book pages Sew, with needle and thread, 5 holes into the folded median line of 4 sheets of paper into the book cover so that the
	pages are bound into the cover Relate at least 2 advantages of working on an assembly line Relate at least one disadvantage of working on an assembly line Given a newspaper, construct a booklet
	discriminating between various types of newswriting (features, sports) Experience sub-assembly and final assembly techniques Type, edit, and print newspaper stories Identify jobs involved in producing newspapers
Retailing	Advertise product orally Advertise product through demonstration
Personnel	State qualifications and personal characteristics in a job application form Identify job qualifications Realize job responsibilities Choose a job he is qualified for Use good reporting and interviewing techniques in obtaining news stories

METHOD OF IMPLEMENTATION
•
Produce hardbound books individually Mas-produce hardbound books
nas produce narabodna pooks
<b>*</b> 1
Produce hardbound books individually Mass-produce hardbound books
Produce classroom or school newspaper
Produce classroom or school newspaper
Desire houstoned to the second
Produce hardbound books individually Mass-produce hardbound books
Produce classroom or school newspaper Apply for jobs

RESOURCE PEOPLE & MATERIALS

Artist, illustrator

Publisher Typesetter Bookbinder Editor Foreman



UNIT TITLE: GRAPHIC COMMUNICATIONS - BOOKS AND NEWSPAPERS (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Self-Awareness	
Clarification of Values	Given a specific value judgment, identify the value principle underlying it

# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

Role playing and discussion of feelings toward working on an assembly line vs as a skilled craftsman

# I. NAME OF ACTIVITY

ASSEMBLY LINE PRODUCTION OF HARDBOUND BOOKS

### II. ACTIVITY FORMAT:

A. Tools and Materials

Decorative cloth

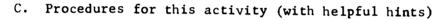
8½ x 11 paper

Shirt cardboard Paste

8½ x 11 unlined paper

Needle and thread

B. Human Aides and Resources



### Procedure:

- 1. Cut  $14 \times 10$  inch piece of decorative cloth from bolt.
- 2. Cut 12 x 9 inch of shirt or thin cardboard (approximately 1/16 inch thick).
- 3. Fold cardboard into 6 x 9 inch sections for cover.
- 4. Cut or use 8½ x 11 inch unlined sheets of paper.
- 5. Fold 8½ x 11 inch paper sheets in half, producing 5½ x 8½ inch pages.
- 6. Paste decorative cover onto cardboard, cutting exposed cloth corners diagonally to avoid overlapping on folded edges.
- 7. Insert folded white paper into cover and sew this signature of pages onto cover in 5 places: once inch from top, half inch down, one inch down, one inch down, half inch down, leaving 4 inches of thread at bottom to bring in to middle and tie with thread sewn into cover.

# Assembly Line Production of Hardbound Books:

- 1. Have pupils brainstorm about necessary stations and personnel to manufacture books on an assembly line with procedures listed in steps 1-7 of Activity above.
- 2. Have pupils organize themselves into groups named in brainstorming (step 1 above) and make signs naming stations and giving directions to perform job in that station.
- Distribute materials needed for and produce books according to steps 1-7 of Activity above.
- 4. Proceed to compose and illustrate Christmas stories in books, incorporating copyright and title pages.



# I. NAME OF ACTIVITY

INDIVIDUAL CONSTRUCTION OF HARDBOUND BOOKS

### II. ACTIVITY FORMAT:

A. Tools and Materials

Decorative cloth 8½ x 11 pape."

Shirt cardboard Paste
8½ x 11 unlined paper Needle and thread

B. Human Aides and Resources

C. Procedures for this activity (with helpful hints)

### Procedure:

- 1. Cut  $14 \times 10$  inch piece of decorative cloth from bolt.
- 2. Cut 12 x 9 inch of shirt or thin cardboard (approximately 1/16 inch thick).
- 3. Fold cardboard into 6 x 9 inch sections for cover.
- 4. Cut or use 8½ x 11 inch unlined sheets of paper.
- 5. Fold  $8\frac{1}{2} \times 11$  inch paper sheets in half, producing  $5\frac{1}{2} \times 8\frac{1}{2}$  inch pages.
- 6. Paste decorative cover onto cardboard, cutting exposed cloth corners diagonally to avoid overlapping on folded edges.
- 7. Insert folded white paper into cover and sew this signature of pages onto cover in 5 places: one inch from top, half inch down, one inch down, one inch down, half inch down, leaving 4 inches of thread at bottom to bring in to middle and tie with thread sewn into cover.
- 8. Proceed to compose and illustrate Halloween story in book, incorporating copyright page and title page.

I. NAME OF ACTIVITY

MAKING BOOKS

# II. ACTIVITY FORMAT:

A. Tools and Materials

Scissors Binding tape Wall paper Paper cutter Oak tag White paper Stapler Colored paper

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Write story.
  - 2. Transfer story to sheets of folded white paper.
  - 3. Illustrate book.
  - 4. Staple pages in the middle.
  - 5. Cut tagboard about 1 inch larger all around than size of open pages.
  - 6. Cover tagboard with wallpaper or colored paper.
  - 7. Affix with binding tape.
  - 8. Illustrate cover.



### I. NAME OF ACTIVITY

BOOK MAKING

# II. <u>ACTIVITY FORMAT</u>:

- - E

A. Tools and Materials

Construction paper Tape
Writing paper Glue
Rulers Scissors
Needles Thread

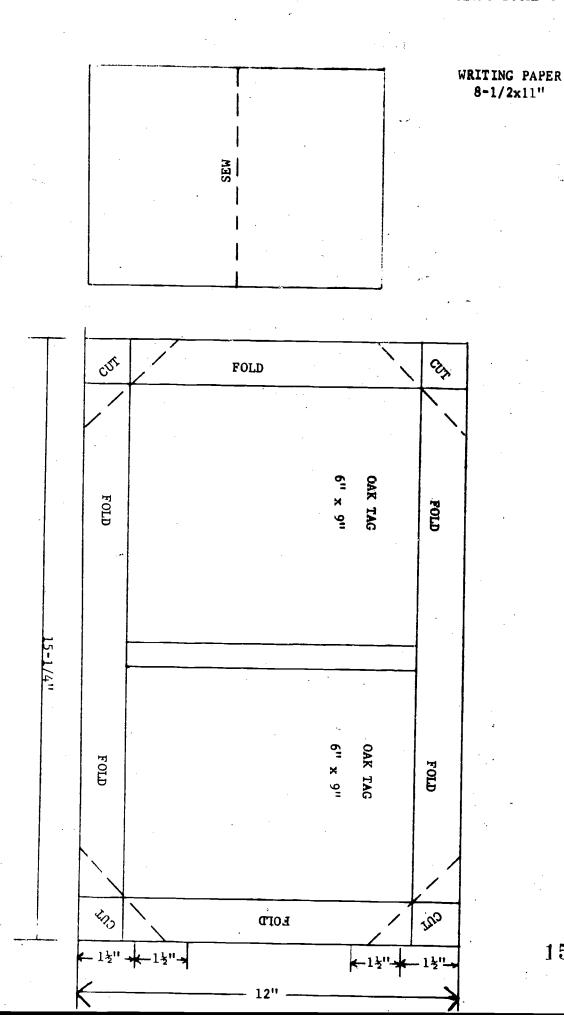
B. Human Aides and Resources

### C. Procedures for this activity (with helpful hints)

- 1. Lay out construction paper to desired dimensions (see drawing).
- 2. Cut off excess paper and fold.
- Count out the desired number of writing papers and background paper.
- 4. Sew writing paper together.
- 5. Place oak tag into folded portions of construction paper.
- 6. Tape oak tag.
- 7. Glue writing paper unto oak tag.

# Student jobs:

- 1. Layout 5. Sewers
- 2. Cutters and folders
- 6. Tape oak in booklets
- 3. Oak tag cutters
- 7. Final assembly
- 4. Paper counters



I. NAME OF ACTIVITY

MAKING BOOKS

# II. ACTIVITY FORMAT:

A. Tools and Materials

Rulers Paper punch Cardboard
Scissors 2 paper cutters Heavy duty string
Brushes Reinforcements Paper (8½ x 11 - unlined, unholed)

B. Human Aides and Resources

# C. Procedures for this activity (with helpful hints)

- 1. a. Measure cardboard (4½ x 11)
  - b. Measure paper (4½ x 11)
- 2. a. Cut cardboard with cutter
  - b. Cut paper with cutter
- 3. a. Measure 2 holes on cardboard edge
  - b. Cut paper with cutter
- 4. a. Punch holes in cardboard
  - b. Punch holes in paper
- 5. Bend cardboard near holes
- 6. Reinforce holes, cardboard
- 7. Tape borders of cardboard
- 8. a. Paint carboard
  - b. Count paper 10 sheets
- 9. Assemble paper between cardboard covers
- 10. Install and tie string

I. NAME OF ACTIVITY

MAKING PAPER FROM RABBIT PELTS

# II. ACTIVITY FORMAT:

A. Tools and Materials

Putty knife
Rabbit pelts
Lime
Rubber gloves

Frame for stretching pelt
Pumice
French chalk (siluate of magnesium)

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  See page 395-396 in Teaching Children About Technology
  By Scobey



I. NAME OF ACTIVITY

MAKING PAPER FROM PAPYRUS

# II. ACTIVITY FORMAT:

A. Tools and Materials

Large kettle
Scissors
2 clean pieces of cloth
Mallet
Stone for polishing

Papyrus - like stalks

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  See page 395 <u>Teaching Children About Technology</u>
  by Scobey
- III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



### I. NAME OF ACTIVITY

MAKING PAPER FROM PULP

### II. ACTIVITY FORMAT:

### A. Tools and Materials

Egg beater	Hot plate	2 full sheets of newspaper	Laundry bleach
Window screen	Wooden spoons		Paper towels
Iron Cooky pan	·	Kraft paper Soap powder	Laundry starch

### B. Human Aides and Resources

# C. Procedures for this activity (with helpful hints)

- 1. Tear 2 full sheets of newspaper into tiny pieces like confetti.
- 2. Place in a quart of H2O.
- 3. Beat this mixture with egg beater until the pieces are well broken up (can add Kraft paper).
- 4. Beat till thin paste.
- 5. Add a couple spoonfuls of soap powder.
- 6. Boil till soft skim off ink.
- 7. Let mixture cool; add 3 tbs. of laundry bleach let stand \( \frac{1}{2} \) hour.
- 8. Pour mixture into a gallon of H20. -
- 9. Stir mixture well.
- 10. Pour diluted mixture over a window screen; lay over sink allow to drain.
- 11. Place paper toweling over it to squeeze out excess.
- 12. Place a dry paper towel on top of the mass of paper fibers lift all layers from screen.
- 13. Place layers on table; put another piece of toweling on top of the newspaper press with a warm iron.

I. NAME OF ACTIVITY

MAKING PAPER

# II. ACTIVITY FORMAT:

A. Tools and Materials

Toilet paper Felt

Starch Paper making frame

Large buckets Egg beaters

B. Human Aides and Resources

- C. Procedures for this activity (with helpful hints)
  - l. Tear toilet paper into very small pieces.
  - 2. Add water and starch beat with eggbeater until pulp.
  - 3. Dip frame in mixture get a thin layer of pulp on screen.
  - 4. Place felt over screen.
  - 5. Squeeze out excess water.
  - 6. Let dry overnight.

#### I. NAME OF ACTIVITY

NOTE PAPER AND ENVELOPES, CARDS

#### II. ACTIVITY FORMAT:

Tools and Materials

Scissors Oak tag

Leaves

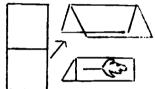
Crayons

Ditto paper

Procedures for this activity (with helpful hints)

List (chronologically) a step by step procedure for each activity being made in the unit.

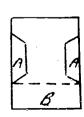
- For Note Paper: 1. Cut or rip paper into half.
  - 2. Fold half into two parts.
  - 3. Put leaf under top paper.
  - 4. Rub crayon or crayons over leaf.

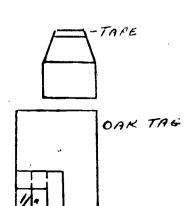


For Envelopes:

- 1. Take paper put leaves under and rub with crayons.
- 2. Cut as follows.
- 3. Fold "A" in both sides.
- 4. Put rubber cement on "A".
- Fold "B" up.
- Two sided tape leave cover on until used.
- Box place envelope on Oak tag, allowing 1/2" space around. Cut on folded lines - glue with rubber cement.













# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

HOMEMAKING

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

In this homemaking section, the following integrated teaching units have been combined and/or presented as a tentative guide for ideas in, application to, or relevance to the upper elementary classroom:

The second section is a

Food preparation Sewing

# TEACHING/LEARNING RESOURCES:

# 1. Reference materials:

### Books:

ABC Caloric Counter - Basic Health Publication
About Foods and Where It Comes From
American Cooks Cookbook
Better Homes and Gardens Cook Book
Bread the Staff of Life
Elementary School Math
Food the Substance of Life
This is Automation

### Films:

Bakery Beat
Dairy Farmer, the Changing Way of Life
Doing Great Things - Kraft
Foods from Grain
Story of Wholesale Market
What is Automation

### Filmstrip:

Garment Factory
How America is Clothed
Milk from the Cow to You
Retail Store
Story of Bread, Grain from Farm to Table
Story of Milk
Services We Buy
Things We Buy
Thinks We Make



# 2. Field Trips:

Koepplinger Bakery, Inc. To a pancake house To a pizzeria Wilson Dairy

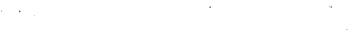
# 3. Human Resources:

Representative from the following occupations:

Bakery Small restaurant Pizzeria

# 4. Activities

Role playing: Chefs preparing recipes - Kneaders - Bakers Decorators - Cookie-cutters - Runners - Packagers Consumers



UNIT TITLE:

**HOMEMAKING** 

CONCEPTS

BEHAVIORAL OBJECTIVES

Social Sciences

Economic choice

As a result of this unit, each child will be able to:

Make a Christmas project to donate to poor, helpless or unfortunate people

Science

Heat

Change of state

Health

Observe effect of heat on ingredients of pancake batter

Recognize and cite evidence for pancake batter changing form to solid pancake over heat

Investigate nutrition of foods to be prepared during unit study



SOURCE PEOPLE & MATERIALS

Baking cookies Making popcorn balls Sewing owl cases for glasses

Baking cookies
Baking bread
Making pancakes
Making butter
Baking rolls
Making pizza



UNIT TITLE:

HOMEMAKING (continued)

CO	NIC	FP	TS

### BEHAVIORAL OBJECTIVES

Math

Measurement

Fractions

Number System

Mone y

Time

As a result of this unit, each chill will be able to:

Measure ingredients used in recipes of foods to be prepared during unit study

Recognize quantities of food recipes in fraction form

Count items produced during unit study

Price each item produced during unit study

Identify time needed for preparing foods to be prepared during unit stack

# Communication Skills

Reading

Identify proper procedure for activity by reading recipes and/or directions



# METHOD OF IMPLEMENTATION

RESOURCE PEOPLE & MATERIALS

Baking cookies
Baking bread
Making pancakes
Making butter
Baking rolls
Making pizza

Baking cookies
Baking bread
Making pancakes
Making butter
Baking rolls
Making pizza
Making owl cases for glasses

NIT TITLE:

HOMENAKING (continued)

Decorating  Use his own pat finished product  Career Awareness  People and their job roles:  Producing  Justify group w in producing go	BEHAVIORAL OBJECTIVES	
Decorating  Use his own pat finished produc  Career Awareness  People and their job roles:  Producing  Justify group w in producing go  Personnel  Recognize the m	his unit, each child	
Career Awareness  People and their job roles:  Producing  Justify group w in producing go  Personnel  Recognize the m		
People and their job roles:  Producing  Justify group w in producing go  Personnel  Recognize the m	ern to decorate his	
People and their job roles:  Producing  Justify group w in producing go  Personnel  Recognize the m		
People and their job roles:  Producing  Justify group w in producing go  Personnel  Recognize the m		
People and their job roles:  Producing  Justify group w in producing go  Personnel  Recognize the m		
People and their job roles:  Producing  Justify group w in producing go  Personnel  Recognize the m		
Producing  Justify group w in producing go  Personnel  Recognize the m		
in producing go  Personnel Recognize the m		
Personnel Recognize the m from "field to	ork and cooperation	
	ny jobs available able."	
·		
Self-Awareness		
	ween a specific value d and the principle value	



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Dogaratina assleta	
Decorating cookies	
	-
•	
Paking applier	
Baking cookies Baking bread	Baker Farmer
Making pancakes	Leatherworker
Making butter	200 MCI WOLKEL
Baking rolls	
Making pizza Making <b>owl case</b> s for glasses	
the same of the sa	·
	•
Justification of group work and coopera in production	tion Foreman



I. NAME OF ACTIVITY

SEWING - OWL CASE FOR GLASSES

# II. ACTIVITY FORMAT:

A. Tools and Materials

Scissors Pattern Glue
Pen Thread
Sewing maching Felt or heavy material

- B. Procedures for this activity (with helpful hints)
  - 1. Cut owl from pattern
  - 2. Sew 2 owl pieces together
  - 3. Cut out features of owl for decoration
  - 4. Glue features onto owl

### I. NAME OF ACTIVITY

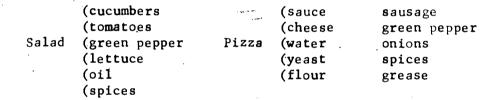
A PIZZA LUNCH

### II. ACTIVITY FORMAT:

A. Tools and Materials

knives, bowls, (paper) plates, (plastic) forks, mixers, blenders, measuring cups, grease, pizza cutter, pizza pans, oven

Materials necessary for each item to be made:



- B. Procedures for this activity (with helpful hints)
  - 1. Cut and trim vegetables for salad
  - 2. Prepare salad dressing
  - 3. Prepare dough for pizza (see bakery Pizza activity)
  - 4. Trim pizza
  - 5. Bake pizza and toss salad
  - 6. Enjoy, enjoy!



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# HANDS ON ACTIVITY (STUDENT PERFORMED)

### 1. NAME OF ACTIVITY

BAKING PIZZA (about 8 people)

# II. ACTIVITY FORMAT;

### A. Tools and Materials

1 envelope dry yeast
2 Tablespoon warm water
1 cup boiling water
1 Tablespoon shortening
1 teaspoon salt
1/2 teaspoon oregano
1 teaspoon sugar
2 cups presifted flour
3 cunces shredded pizza cheese
1 1/2 cups drained canned tomatoes
1/2 cup chopped onions
1/2 teaspoon basil
1/2 teaspoon oregano
pepper
1/2 cup spaghetti sauce
1/2 cup sliced pepperoni

# B. Procedures for this activity (with helpful hints)

Preheat oven to 425° F. Grease pizza pan. Soften yeast in warm water in small bowl. Let stand 5 minutes. Stir until dissolved. Pour boiling water over shortening in bowl. Add salt and sugar. Stir until smooth. Cool to lukewarm, stir in yeast. Gradually add flour, beating well to soft dough. Knead on lightly floured board until smooth. Stretch and pull to fit pan. Let rise in warm place for 15 minutes. Sprinkle on cheese. Top with tomatoes. Sprinkle with onions, basil, oregano and pepper. Spread on spaghetti sauce and pepperoni. Bake in preheated oven for 25 minutes or until crust is golden brown. Cut into wedges.

# I. NAME OF ACTIVITY

BUTTER MAKING

# II. ACTIVITY FORMAT:

A. Tools and Materials

Wooden bowl Blender Salt
Wooden paddle Rubber scraper Pasteurized whipping
Quart size jar with lid Water cream

- B. Procedures for this activity (with helpful hints)
  - 1. Pour cream into jar
  - 2. Shake jar until cream thickens
  - 3. Add a little water to jar as mixture thickens
  - 4. Scrape mixture into wooden bowl and press out milk
  - 5. Wash remaining mixture in water
  - 6. Pour water off until water is clear
  - 7. Salt butter (remaining mixture) lightly
  - 8. Put butter on plate
  - 9. Shape butter into desired design



# NAME\_OF ACTIVITY

PANCAKE SUPPER

# **ACTIVITY FORMAT:**

#### Α. Tools and Materials

Tools necessary for each item to be made:

Frying pans

Pencils

Pancake turners

Cash register (?)

Spoons

Broom

Measuring cups Bowls - mixing

Map Knives and forks

Coffee pots

Cream and sugar servers

Additions by children

Materials necessary for each item to be made:

Paper plates (plastic coated)

0i1

Milk Eggs

Syrup

Mix

Meat (bacon and sausage) Paper (mats - tablecloth)

Napkins

Cloth (aprons)

Coffee

Thread

Sugar

Towe 1s

Cream (dry?)

Soap

Sponges

#### В. Procedures for this activity (with helpful hints)

- Research recipe (2 or 3)
- 2. Cost of ingredients and/or material
- Selling cost
- 4. Advertising
- 5. Arrange for materials and facilities
- 6. Prepare tablecloths, menu, aprons, place mats, music
- 7. Select work assignments and assign
- 8. Obtain material for pancakes, etc.
- 9. Serve supper
- 10. Clean up
- Figure profit and allocate same

1/6 cup melted

6 1/2 to 7 cups

sifted allpurpose flour

butter

# HANDS ON ACTIVITY (STUDENT PERFORMED)

# I. NAME OF ACTIVITY

BAKING ROLLS (QUICK YEAST BREAD)

# II. ACTIVITY FORMAT:

# A. Tools and Materials

2 pkg. dry yeast 2 1/2 teaspoon salt 1 cup lukewarm water 1/3 cup sugar 2 eggs, well beaten 1/6 cup milk - scalded 1/6 cup melted shortening

Mixing bowls Sauce pan
Measuring cup Knife
Measuring spoons Wire mixer
Baking pans

B. Procedures for this activity (with helpful hints)

### **METHOD**

Sift flour into large bowl and set aside.

Soften yeast in lukewarm water with 1 teaspoon sugar in large mixing bowl. Have another bowl, greased with Crisco or Pam ready.

Bring milk to boil in sauce pan (scald). Take off heat, add salt and 1/3 cup sugar. Cool to lukewarm by setting mixture in pan in another pan with cool water in it. When mixture is cooled, add to yeast in bowl along with the 2 beaten eggs.

Melt shortening, butter mixture in small pan over heat. Cool in larger pan with cool water in it.

Add 4 cups flour into yeast - egg mixture and beat until smooth. Add melted cooled shortening, butter mixture and again beat until smooth. Stir in and knead enough flour to make a smooth, elastic dough, but not too stiff.

Place in greased bowl, turning dough over once. Cover bowl. Let rise in cozy warm place (85 degrees) about 1 hour, or until double in size. Then turn out onto lightly floured board and shape into rolls or three loaves. Place into greased pans - cover. Let rise again in warm place until double, about 30 minutes.

Bake in moderate oven (400 degrees) 15 - 20 minutes for rolls. Bake loaves 20 minutes at 400 degrees, then reduce heat to 350 degrees and bake 20 minutes longer. Let loaves cool before taking them out of pans.

MAKES 2 DOZEN ROLLS OR 3 SMALL LOAVES.



I. NAME OF ACTIVITY

MAKING POPCORN BALLS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Popcorn Popcorn popper Syrup

- B. Procedures for this activity (with helpful hints)
  - 1. Assembly line stations
    - a. Pop the popcorn
    - b. Messure and prepare syrup
    - c. Put popcorn and syrup together form into balls
    - d. Cooling table
    - e. Packaging table
    - . Pricing table
  - 2. Selling at the fair

# NAME OF ACTIVITY

BREAD MAKING FROM STARTER

#### II. ACTIVITY FORMAT:

Tools and Materials

Hot plate 2 small pans Measuring spoons

1 medium sized potato flour

1 cup milk

1 1/2 teaspoon salt

Fork Spoon Bow1s

l bread pan

1 bread board

1/2 Tablespoon sugar 1 Tablespoon shortening

В. Procedures for this activity (with helpful hints)

#### Prepare Starter

Cook 1 medium-sized potato in a small pan with enough water to cover it. After it is soft, mash it thoroughly in water in which it's cooked. Add 1 1/2 teaspoons salt, 1/2 tablespoon sugar, and 1/2cup flour. Mix thoroughly, adding more water if necessary, until the consistency is that of thin buttermilk. Set in a warm place until the mixture begins to bubble.

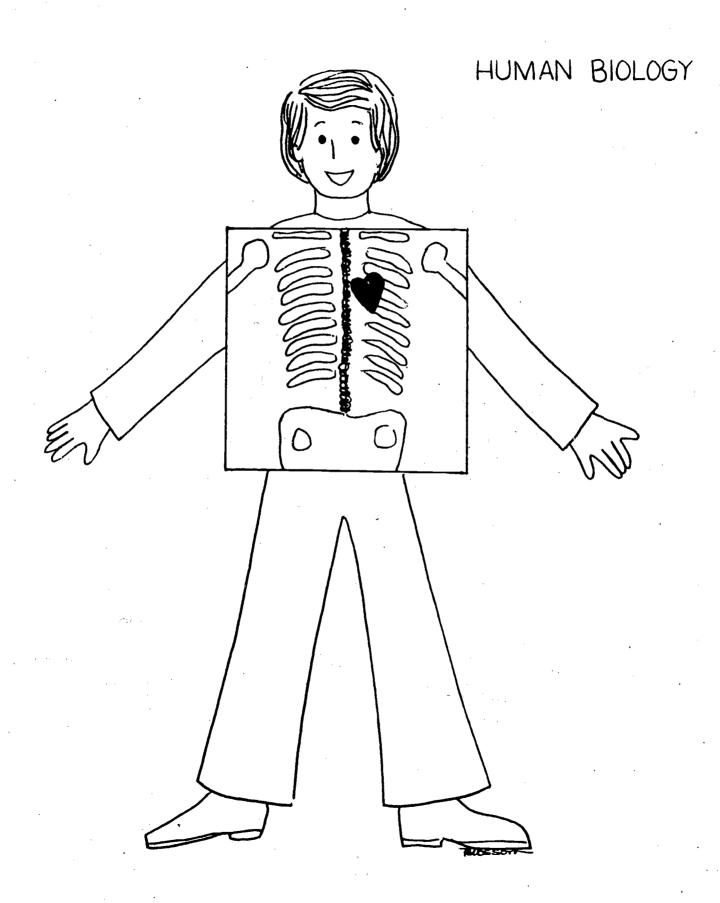
#### Set the Sponge

On the evening preceding the baking day, set aside a small portion of the starter, and mix the remainder with enough flour to make a batter that will hold together but light enough to drop from a spoon. Set this batter in a fairly warm place overnight so it will become bubbly and spongy. In the morning, take out a small amount of the sponge, and add it to the starter that was saved.

#### Mix and Bake Bread

Scald 1 cup of milk, add 1 tablespoon shortening, and let cool. Add 1 cup flour, stirring well. Add the sponge and mix. Mix with flour until a dough is made that can be kneaded. Turn out on a floured board and knead until smooth, about 5-10 minutes. Place in a greased bowl, set in a warm place to rise. When it has doubled in size, punch down and let rise again until almost double in size. Mold into loaf, place in a greased pan, and let rise again until double in size. Bake moderately in a hot oven. 45-50 minutes.







#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

HUMAN BIOLOGY

**GRADE LEVEL:** 

6

GENERAL OVERVIEW:

A study of the major systems of the body and careers related to the medical profession, including the area

of cosmetology

# TEACHING/LEARNING RESOURCES:

#### 1. Reference materials:

Books:

Science Milestones, Science Digest

Mr. Wizard's Science Secrets, Don Herbert

101 Science Projects, George Stone Science in the Elementary School

<u> Mallinson - Science 6</u>

Movies:

Digestion in our Bodies

Human Body - The Digestive System

Human Machine

Nutritional Needs of our Bodies

Breathing

The Respiratory System

Film

loops:

Cosmetologists
Dental Assistant
Dental Hygienist

Dental Lab Technicians Licensed Practical Nurses Medical Lab Technicians

Registered Professional Nurses

Film-

strips:

Your Heart and Lungs Digestion of Foods Our Health Department

Public Health

Anthony Van Leeuwenhoek

Louis Pasteur William Harvey

Your Bones and Muscles

Your Muscles

Human Body Framework Human Circulatory System

Eyes

The Ears and Hearing
The Feel of Your Skin

Pictures: Health

Health Helpers

Medical Helpers

Tapes:

Drugs - Part I

History, Causes and Overview

Part II Description and Use

Part III Turning Off the Turned On

Part IV Down the Lonesome Road

# 2. <u>Field Trips</u>:

Beaumont Hospital
Ambulance Service
Oakland County Health Department
S.E.O.V.E.C. - Dental Assistant Program

#### 3. Human Resources:

School Nurse
Receptionist in Doctor's Office
Registered Nurse
Public Health Nurse
Students from S.E.O.V.E.C. Dental Health Program
Dietician from Hospital
Student in Make-up from Macomb Community College
Speaker on Hearing Aids

# 4. Activities:

Dissecting animal organs
Hatching of eggs
Taking temperatures, blood pressure, pulse
Quiz Bowl Game
Booklet of drawings
Cle aning teeth
Balanced diets
"Growing Up" Program
Microscopic use - cells
Model of the lungs
Model of the arm
Model of a spirometer
Model of a stethoscope
Model of blood circulation
Watching make-up demonstration and then apply own make-up



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UNIT TITLE: HUMAN BIOLOGY

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Science	
Cells	Examine, identify, compare and contrast five various parts of cells
Dissues	Identify four various tissues within the human body
Organs	Identify and differentiate between various organs within the human body
Systems	Discover and discuss critically six main systems of the human body
Health and Safety	Recognize and cite evidence for good health and safety practices
Drugs	Discuss critically, and identify the variables involved in drug use and abuse
Nutrition	Compare and contrast menus recorded of individuals' meals (for a week)
• • • • • • • • • • • • • • • • • • •	Plan meals that are necessary for a balanced diet
Skin Care	Identify the variables in applying make-up to one's face and relate why this is necessary for a good, healthy skin
Eyes, Ears	Identify and describe four principle parts and functions of the eye and three parts and functions of the ear



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
·	
Examine many different slides of cells under a microscope	Dianthron - small transparent fish- you can see the systems working
•	
·	
Role-playing	Doctor
	Nurse
Have students keep a record of their food intake for a week	
· ·	·
Use models from Instructional Materials Center	

JNIT TITLE:

HUMAN BIOLOGY (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Measurement	Measure and compute weight of another student and convert weight to ounces, pounds, grams, kilograms, etc.
	Compare and contrast weights computed of humans to those of animals of the same age
Computation	Compute blood pressure of other individuals in class
	Compute heart beats per minute while engaged in various activities
Graphing	Experiment and graph heart beat at rest and then after exercise
Communication Skills	
Spelling	Recognize, use and spell correctly terms related to health and the human body
Writing	Differentiate the various forms of letter writing and apply this knowledge
	Write imaginary stories of journeys through the different body systems
· · · · · · · · · · · · · · · · · · ·	

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# METHOD OF IMPLEMENTATION

RESOURCE PEOPLE & MATERIALS

Use school scale for student weight. Convert each to metric system and record

Use blood pressure equipment, if registered nurse is available

Use stethoscope or check pulse and record on graph paper

Write thank-you letters to speakers; business letters, etc.



UNIT TITLE: HUMAN BIOLOGY (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Art	
Drawing	Prepare diagrams of body systems
	Prepare diagrams of different kinds of cells found in the body
Career Awareness	
People and their job roles	Discuss critically jobs associated with the health, medical and nutritional fields
Working conditions	Identify the variables, compare and contrast the working conditions of jobs in the health, medical and nutritional fields
Servicing	Distinguish between the services provided by various jobs in the abovementioned fields
Producing	Investigate various products (such as artificial limbs, kidney machines, etc.) manufactured for the purposes of aiding various functions of the human body
Self-Awareness	

# Self-Awareness

and Decision-Making

Facilitating Personalized Planning Explain why knowledge of one's self is necessary for one to effectively manage his life



METHOD OF IMPLEMENTATION .	RESOURCE PEOPLE & MATERIAL
Using trade books, overhead	
transparencies, etc., to draw diagrams	
diagrams	
	·
Have guest speakers come in and speak with the students	Doctor Nurse
Field trips	
Models could be made of some of these	
products	,
	I



1.84

# HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

DISSECT HEARTS

# II. ACTIVITY FORMAT:

A. Tools and Materials

1 pluck (sheep) Microscopes
plastic straws Scissors
5 pig hearts Newspapers

# B. Procedures for this activity (with helpful hints)

- 1. Put straw through left auricle, through mitral valve to left ventricle, cut along straw. Clean out clots.
- Repeat above process on right side. Hints, use newspaper to cover desk, have large plastic bag for disposal, have microscopes to examine tissue.
- 3. Pluck a. Discuss organs
  - b. Cut pieces of lungs have child insert straw and blow to cause lung to expand

# I. NAME OF ACTIVITY

APPLYING OWN MAKE-UP FOR PLAY

# II. ACTIVITY FORMAT:

A. Tools and Materials

Cold Cream for base All kinds of cosmetics

- B. Procedures for this activity (with helpful hints)
  - Each applied own make-up as closely as they could to earlier demonstration.
  - 2. Flood lights must be used in play in order to make this effective.



I. NAME OF ACTIVITY

STAGE MAKE-UP DEMONSTRATION

#### II. ACTIVITY FORMAT:

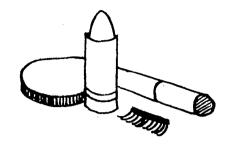
A. Tools and Materials

volunteer theater make-up

B. Human Aides and Resources

Student from Macomb Community College

- C. Procedures for this activity (with helpful hints)
  - 1. Choose the main elf to be made up
  - 2. Talk about importance of using proper cosmetic base
  - 3. Stage uses a grease paint, but student tells children how to use cosmetics
  - 4. Demonstrator shows how not to have make-up patchy how to make a person old or young, and highlight features
  - 5. Should be able to see facial features from last row



I. NAME OF ACTIVITY

MAKING A SPIROMETER

# II. ACTIVITY FORMAT:

A. Tools and Materials

Metal cutter 8mm tubing (rubber)
5 inch metal kitchen funnel Straw
1 gallon glass jug Ruler
Rectangular acquarium

B. Procedures for this activity (with helpful hints)

Please see 101 Science Projects by George K. Stone, p. 3.

NOTE: Teacher may wish to just use spirometer

# I. NAME OF ACTIVITY

MAKING A MODEL TO SHOW HOW THE LUNGS WORK

# II. ACTIVITY FORMAT:

A. Tools and Materials

Scissors Rubber
Lamp chimney Rubber
1-hole rubber stopper Rubber
Glass tubing

Rubber band

Rubber balloon - large Rubber balloon - small

B. Procedures for this activity (with helpful hints)

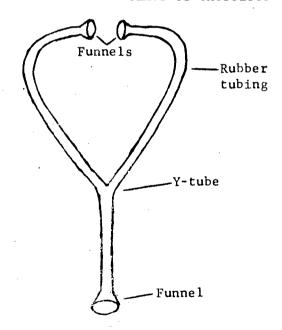
Please see p. 605 in <u>Science for the Elementary School</u> by Edward Victor

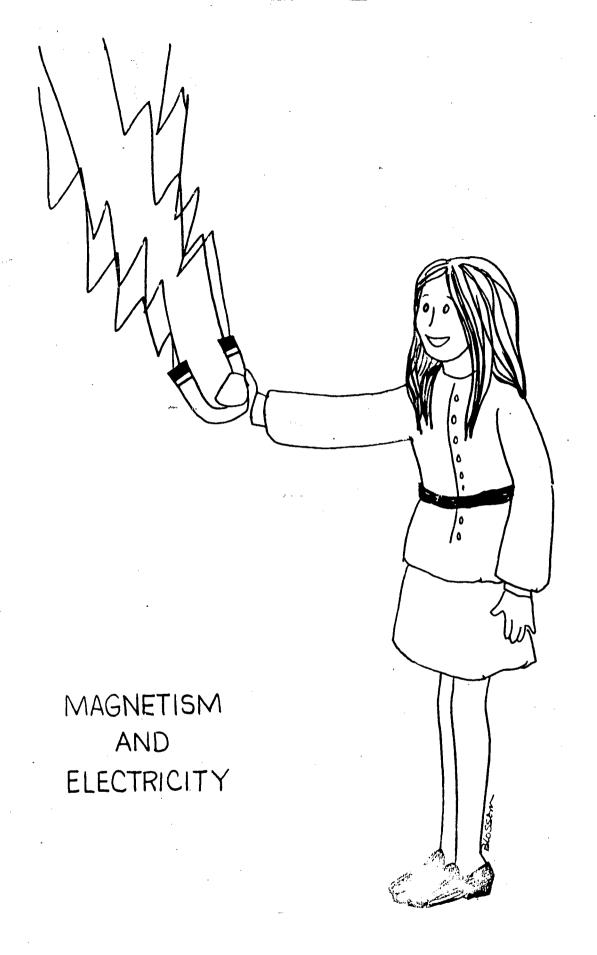
# I. NAME OF ACTIVITY

MAKING A MODEL OF A STETHOSCOPE

#### II. ACTIVITY FORMAT:

- A. Tools and Materials
  - 3 funnels
  - 3 pieces of rubber tubing
  - 1-Y piece of glass tubing
- B. Procedures for this activity (with helpful hints)
  - 1. Make a stethoscope from 3 funnels, a glass tube or T-tube plus one short piece of rubber tubing and 2 longer pieces of rubber tubing (see diagram)
  - 2. Let the kids take turns listening to heartbeats
  - 3. Compare the heartbeats of the kids when they are quiet with their heartbeats after they have jumped up and down 15 or 20 times or exercised vigorously





# SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

MAGNETISM AND ELECTRICITY

GRADE LEVEL:

GENERAL OVERVIEW:

Based on science guide unit: "Investigated magnetism, electricity, how they are related and how man uses them."

#### TEACHING/LEARNING RESOURCES:

# Reference materials:

Films:

From Detroit Edison Company From Consumers Power Company

Film.

loops:

Electrician

Linemen and Cable Splicers

Telephone Craftsman

Telephone and PBX Installers and Repairmen

Film-

strips:

From Detroit Edison Company

Books:

Come to Work With Us in a Telephone Company

Let's Visit a Telephone Company Let's Visit an Electric Company

Pamphlets: From Detroit Edison Company

From Consumers Power Company

Royal Oak Science Guide, pages ME 19 to ME 27

#### Field Trips: 2.

Edison plant of St. Clair Detroit Edison Company Telephone company

#### 3. Human Resources:

Royal Oak Schools electrician Royal Oak Schools assistant electrician Have a telephone service truck come to the school 4. Activities: (role playing, hands on activities, interviewing)

Made permanent magnets
Made electromagnets
Made electromagnetic games, telegraph, fuses
Made complete electrical circuits with power sources,
conductors, appliances and switches
Kept a notebook of occupations in the field of electricity
Make a bulletin board of occupations in the field of
electricity



UNIT TITLE: MAGNETISM AND ELECTRICITY

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# BEHAVIORAL OBJECTIVES

# Social Sciences

Economics

As a result of this unit, each child will be able to:

Prove that electrical power is an efficient source of power

#### Science

Magnetism:

magnetic materials and non-magnetic materials

magnetic fields

electromagnets

Electricity:

conductors and insulators

circuits

cells and batteries

Recognize which materials are magnetic and shows a magnetic field

List materials necessary for electromagnets

Discover materials that act as a conductor or insulator of electricity

Explain the electrical current in series, parallel and simple circuits

State reason for electrical operation of cells and batteries

Differentiate between cells and batteries

RESOURCE PEOPLE & MATERIALS METHOD OF IMPLEMENTATION Make electromagnetic games, telegraphs, fuses Make permanent magnets Make electromagnets Make electrical circuits (various types) Making electrical circuits

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UNIT TITLE: MAGNETISM AND ELECTRICITY (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Mathematics	·
Linear measure	Measure accurately materials used in constructing electrical equipment
Electrical measures	Compute and discuss ohms, amps, volts and voltage (ohms law)
	•
Communication Skills	
Record information	Write up observation of experiment
<del></del>	
Oral discussion	Discuss occupations using magnets and electricity
Spelling	Spell correctly 15 words related to magnetism and electricity
	-
	*

METHOD OF IMPLEMENTATION

RESOURCE PEOPLE & MATERIALS

Make electrical equipment

Introduce electricity units by building bulletin board on occupations



UNIT TITLE:

MAGNETISM AND ELECTRICITY (continued)

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### BEHAVIORAL OBJECTIVES

# Career Awareness

People and their job roles: Servicing

Producing

Personnel

Working conditions

As a result of this unit, each child

will be able to:

ations you

List two occupations which people maintain and repair products which have electromagnets

Construct an electrical apparatus

Predict favorable working conditions

List six favorable working conditions of an industry

# Self-Awareness

Awareness of others

Explain why observation of activities may not <u>always</u> provide accurate information about a person's skills or interests



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	·
Write a report on two service occupations in electricity	Electricians
Make electrical equipment (games, telegraphs, etc.) Role playing showing different kinds of working conditions	

Predicing favorable working conditions



#### I. NAME OF ACTIVITY

ELECTROMAGNET CONSTRUCTION

# II. ACTIVITY FORMAT:

A. Tools and Materials

Insulated wire Dry cells Large nails

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - Wrap insulated wire, about six turns, around a large iron nail.
  - Connect the bare ends of the wire to the terminals of the dry cell.

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- 3. Count the number of thumb tacks the nail picks up.
- 4. Double the turns of the wire around the nail.
- 5. Count the number of thumb tacks the nail picks up.
- 6. Wire together two dry cells.
- 7. Count the number of thumb tacks the nail picks up.

  See pages ME 19 to ME 27 of the Royal Oak Science Guide for other related activities.

I. NAME OF ACTIVITY

ELECTROMAGNETIC GAMES, FUSES, TELEGRAPHS

# II. ACTIVITY FORMAT:

A. Tools and Materials

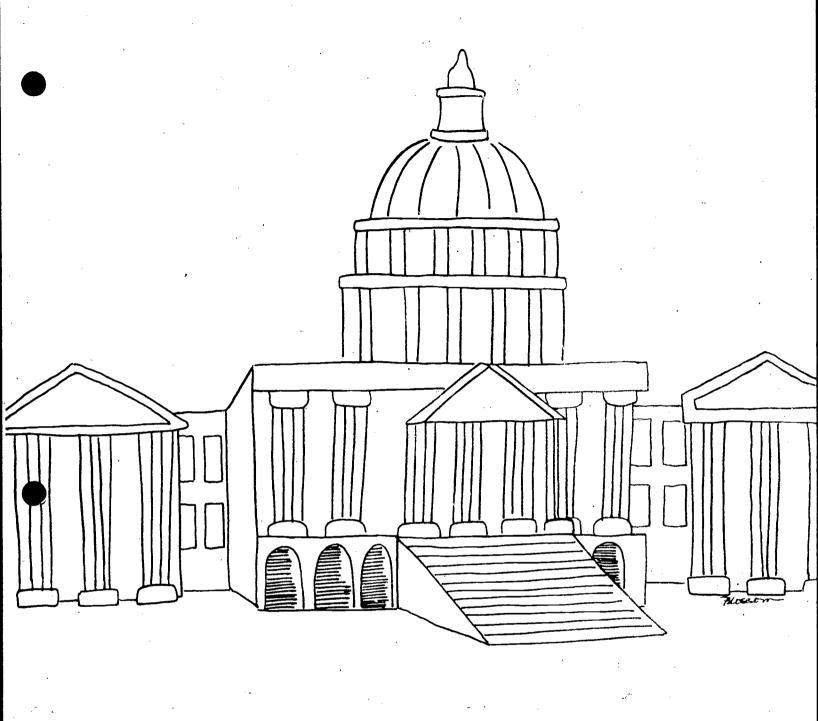
Size 48H bulbs Nails Insulated copper wire Plywood 1" X 4" (pine) Metal from tin can Dry cells Screws Gum wrapper foil Cardboard

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - Students make sketch of project from book.
  - 2. Decide on materials needed for construction.
  - 3. Students assemble materials, proceed on construction.
  - 4. When making electromagnetic games, cut out small figures, otherwise electromagnet may not be strong enough to pull across cardboard.

# Bulletin Board of Electrical Occupations

- 1. Brainstormed together
- 2. List brainstormed jobs on board
- 3. Make bulletin board of jobs brainstormed and listed





A POLITICAL SYSTEM

#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

A POLITICAL SYSTEM

GRADE LEVEL:

5-6

**GENERAL OVERVIEW:** 

In this unit, the political system of the United States,

units have been combined to encompass the areas of

elections and courtroom procedures.

#### TEACHING/LEARNING RESOURCES:

#### Reference materials:

Books:

Concepts and Values, Book 5

How Our Government Helps Us, Benefic Press Primary Supplementary Social Studies Program

Films:

American Presidency

White House Past and Present Profile of the Presidency ·

Realia: Campaign Materials Old and New

Reproductions of Old Campaign Buttons (Standard Oil)

Pamphlets:

1972 American Voter - General Motors

Newspapers and magazines Guide to Voting Procedures Procedures for Election Workers

#### Field Trips:

Royal Oak City Hall (to observe a court case) Historical Shop, Royal Oak

Visits to city, county, state and federal offices

#### 3. Human Resources:

An elected city official A representative from each of the major party headquarters Someone with historical realia (i.e., old campaign buttons, dishes, etc.) Poll worker

#### Activities:

Brainstorming - beginning activity to find out what students know Nominations of candidates Campaign speeches and rally Campaign posters and literature Voter education (2 students to each room to instruct students as to how voting booth works)



Construction of booths

- a) secret ballot
- b) for non-readers pictorial ballots
  Tallying votes (counted rolls in rooms)

UNIT TITLE: A POLITICAL SYSTEM

	<u></u>
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Sciences	
Political Parties	
History	Discuss critically the history and evolution of political parties in the United States
Race	Examine and justify the role political parties play in the United States
Government Branches	Discuss critically the responsibilities of each of the 3 branches of government:  (judicial, executive, legislative)
	Recognize and cite evidence for a system of checks and balances
Voting	Prove that voting is a privilege and a responsibility
<u>Math</u>	
Number System	Compute electoral college votes and delegate votes
Per <b>c</b> ent	Compute portion of the total vote needed to win an election, to be shown in graph or chart form
	Compute how many people in the veting community voted

# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

Divide class into small groups, each taking a political party. Research and present history to the rest of the class

Role play the three branches of government:

- 1) run for office
- 2) write and pass bills
- 3) interpret a law

Hold an election:

- 1) register voters
- 2) set up mock election
- 3) tabulate results

From actual election held, tabulate results



UNIT TITLE: A POLITICAL SYSTEM (Continued)

<del></del>	
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Writing	Prepare campaign literature for class- room election
	Prepare thank-you notes for resource people, realia and field trips
	Prepare a political ad from a positive point of view
<u> </u>	
Design	Make campaign posters and campaign buttons
cusic	
Songs	Discover and examine campaign songs



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Compare different media used in elections: 1) posters 2) pamphlets 3) radio 4) T.V. 5) billboards	
6) handouts Write own campaign material	
Make posters	- FOR NIAN
	OUR
Sing songs in music class	



UNIT TITLE: A POLITICAL SYSTEM (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Career Awareness	
People and their job roles:	Propose and defend reasons for jobs affiliated with government (including courts)
Managing	Organize classroom election from convention to voting
Producing Distributing	Produce and distribute campaign materials
Servicing	Prepare materials to advertise the campaign
	Discuss critically the services pro- vided by the courts
Personnel selection	Discuss critically the procedure for selection of candidates
€ -	Identify the variables in the wages, working conditions and fringe benefits of various candidates
Job Mobility	Identify the variables of what may happen to those people not elected
Self-Awareness	
Identification of personal values	Describe two characteristics that you would look for in a job if you were look-ing for a job and identify the values reflected in those objectives



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
<del>ن.</del> خ	
Set up a school government body with students running for office  Each student organizes own campaign	Political campaign managers Politicians Judge Court clerks
Discuss the alternatives open to the ones who lose in an election	
•	
Role playing	
Holding an election	Political campaign manager Politician



I. NAME OF ACTIVITY

ROLE PLAYING COURTROOM SCENE

# II. ACTIVITY FORMAT:

A. Tools and Materials

classroom
jury
judge

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Set up a mock courtroom scene
  - 2. Simulate a court case
  - 3. Role play jobs of people involved in courtrooms including:
    - a) judge
    - b) policeman
    - c) recorder
    - d) lawyer
    - e) clerk
    - Decide case
  - Discuss education needed for each of the above-mentioned jobs



#### I. NAME OF ACTIVITY

VOTING BOOTH

#### II. ACTIVITY FORMAT:

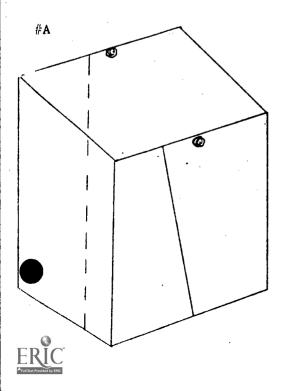
#### A. Tools and Materials

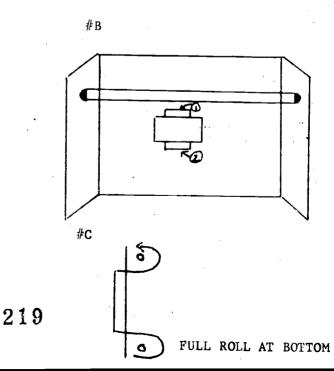
string
one freezer crate for 2 voting booths
cardboard cutter
three dowel rods per booth (2 for
voting roll and one for the curtain
curtains
roll paper
rulers and yardsticks
magic markers
oak tag
pipe cleaners

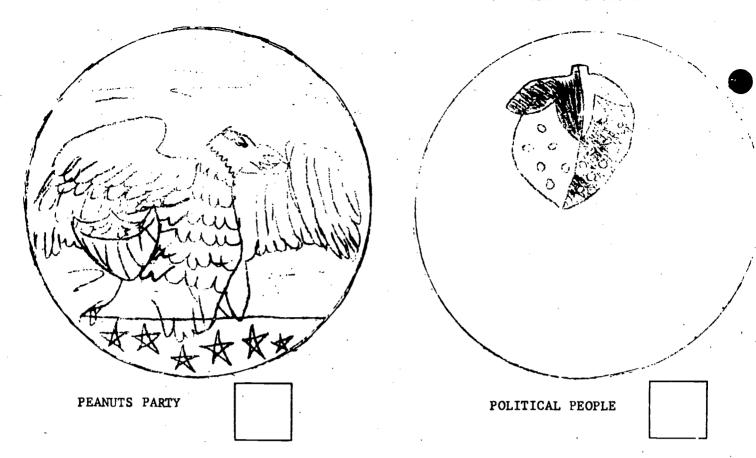
#### B. Human Aides and Resources

None

- C. Procedures for this activity (with helpful hints)
  - 1. Cut crate in half
  - 2. Make holes for large dowel that will hold curtain
  - 3. Make holes at #1 and #2 in illustration B
  - 4. Mark rolls of shelf paper into two inch sections on one side, and two inch columns on the other (columns for the voters)







FRANK B.

PRESIDENT

JOANNE G.

VICE-PRESIDENT

CINDY C.

SECRETARY

KYLE R. PRESIDENT

CRISSY L. VICE-PRESIDENT

LISA D. SECRETARY

INSTRUCTIONS: YOU ARE TO MARK YOUR BALLOT FOR ONE PARTY ONLY. YOU CANNOT DIVIDE YOUR VOTE BETWEEN THE TWO PARTIES. VOTE FOR THE PARTY OF YOUR CHOICE BY MAKING AN X IN THE SQUARE BY THE PARTY NAME. BALLOTS NOT CORRECTLY MARKED WILL BE CONSIDERED VOID AND NOT COUNTED.

A POI	TITICAL	SYSTEM
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THIS IS TO CERTI	FY TH	AT							<u> </u>	· 		
IS A CITIZEN IN	GOOD	STANDING	IN	ROOM	122	AND	IS	ENTITLED	TO VOTE	IN '	THE	
CLASSROOM ELECT	ON.			,				•				
				٠				`, 			•	
DATE								SIG	NATURE	•		
	7	_				-						
			•								·	

#### I. NAME OF ACTIVITY

CLASSROOM ELECTION

#### II. ACTIVITY FORMAT:

A. Tools and Materials

None

B. Human Aides and Resources

The secretary, principal and the other fifth grade teacher who helped in voter registration

C. Procedures for this activity (with helpful hints)

Divide the class by random sampling into two political parties. I appointed temporary chairmen. Each group then:

Chose a name and official party symbol

Selected (in our case by voting) candidates for the offices of president, vice-president and secretary

3. Produced campaign posters with direction that nothing could be said against someone else - everything must be positive in favor of; not negative against

4. Register to vote by proving they were a citizen of Room 122\* to the other fifth grade teacher. (Some used their office card, some the C.A.-10 books, some papers that I had written comments on, etc.)

\*I had to prove I taught in room 122!

The registration certificate had to be produced on election day before a child could receive a ballot. When each child voted their certificate was "voided" by being rubber stamped with a carved eraser stamp

6. Each child voted in a study carral and placed their ballot in a sealed box. (We did this on election day.) Ballots not marked correctly were destroyed. Several children lost their certificates and were unable to vote

7. All campaign posters in the room and hallway (within 100 yards of the polls) were removed before election day

8. The polls closed and opened at official pre-stated times

- 9. One child voted "absentee" by ballot sent home and returned by mom in a sealed envelope
- 10. A representative from each party helped me count the votes one reading the vote aloud and the other confirming it as I tallied it

#### I. NAME OF ACTIVITY

MASS PRODUCING CAMPAIGN BUTTONS USING ASSEMBLY LINE TECHNIQUES

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Oak tag
pins
magic markers
template patterns made by each party

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Each party was divided into three assembly lines
  - 2. Children were allowed to choose their jobs, i.e., coloring, cutting, etc.
  - ... 3. Foremen were volunteers
    - 4. Each "line" made as many buttons as possible in the allotted time
    - 5. Nothing was said about quality until after work period
    - 6. We brainstormed after to find out what we could or should have done differently the biggest criticism was: "we should have planned more."
    - 7. Quality control inspection eliminated all buttons not symmetrical in shape, with misspelled words and not colored to pre-set specifications



I. NAME OF ACTIVITY

BRAINSTORMING

#### II. ACTIVITY FORMAT:

A. Tools and Materials

chalkboard

B. Human Aides and Resources

A classroom of children Several students to record ideas

C. Procedures for this activity (with helpful hints)

Listed advantages and disadvantages of being president of the United States kicked off by question, "Why would anyone want to be president of the United States?"

Used many of the ideas as headings for an on-going political bulletin board titled, "The World of Work in Politics."

Included:

- a) Secret Service
- b) Newswriters
- c) Cartoonists
- d) Newscasters
- e) Families
- f) Sales and advertising





# PRODUCING AND RETAILING

#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

#### INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

1.

PRODUCTION AND RETAILING

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

In this Production and Retailing section, many units have been integrated as a tentative guide for ideas.

The following sections are included:

Newspaper Drive

Production and Retailing

UNICEF

Throughout all sections run the following themes: advertising, economics, incorporation and operation of a company, design, pattern, and product production,

utilization and disposal.

#### TEACHING/LEARNING RESOURCES:

## Reference materials:

Books:

The Social Sciences Concepts and Values, Harcourt

Brace Javonovich, Inc.: n.t. 1970

Elementary School Math Book 6, Addison Wesley

Publishing Company, 1971

Books on industry, banking, economics

Career Opportunities, American Association of Ad Agencies,

Inc., 200 Park Avenue, New York, N. Y. 10017

Progress In English - Experience in Language, Laidlaw,

Grade 6

Films:

ABC's of Hand Tools, Part I and II

Our Productive Resources

The Assembly Line in Modern Technology

History of Money

Film-

strips:

What One Half Means

Measuring How Long

Introducing Economics Series

Andy and Bank Series What is Automation

Cards:

Tax exemption Social Security

#### Field Trips:

Cranbrook Science Room Ford Motor Company - Wixom plant Wayne Onkland Bank

Burger King W. T. Grant Lumber scrap yard Appl Orchard J. C. Penney



Bakery
S.E.O.V.E.C.
Swift Premium Company
Royal Oak Waste Paper and Metal Company

#### 3. Human Resources:

Advertising associate
Carpenter
Accountant
Small businessman
Salesman
Payroll clerk
Banker or credit union manager
Person from Department of Weights and Measures
Sales representative from Swift Premium Advertising Company
Art teacher
Manager from W. T. Grant

#### 4. Activities:

Role Playing:

Dramatization of original ads
Brainstorming for responsibilities
Select jobs.
Produce booklets on an assembly line
Manager
Interviewers
Workers
Secretaries
Supply Clerk
Banker and Accountant
Tax collector
Insurance agent
Medical Personnel
Paymaster

#### Activities:

Payday Apply for Job Construct Wooden Book Shelves Construct Wooden Book Holders Bag Holder Booklets produced via assembly line Automobile Mass Production Geoboards File Boxes Bulletin Board of Jobs Silk Screening of Pennants, Banners and Cushions Boomerang Puzzle Tic Tac Toe Board Selling Door to Door Keeping Up Territory Sales Maps Develop Sales Vocabulary Collection and Unloading of Paper at Scrap Yard Work Study Program at Grant's



Making a Slide-Tape Presentation for Parents
Newspaper Collection
Design, pattern, construct and evaluate student project
UNICEF Activities:

Advertising
Setting up bookkeeping books for each company formed
Make menu and order food
Shopping
Cooking
Setting up production line
Clean-Up
Collecting labels from commercial products for UNICEF
Trick or Treat for UNICEF

#### Advertising Activities:

Dramatize original ads
Bring in magazine and newspaper ads
Discuss techniques used to sell a product
Examine sense imagery, words, and slogans used in ads
Discuss familiar TV ads
Examine a prepared television commercial
Prepare original advertising scripts
Brainstorm with the advertising associate

UNIT TITLE: PRODUCTION AND RETAILING - ADVERTISING TECHNIQUES AND THEIR EFFECTS

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	
Economy	Define market, market economy - describe their characteristics
	Defend advertising as an influence on con- sumers to want and buy a product
**	Describe as advertising techniques: glittering generalities, band wagon, transfer, testimonials, slogans, card stacking, plain folks
	Identify these techniques in advertisements
Communication Skills	
Poetic form of writing	Incorporate advertising words and techniques in poetic form and in creating scripts for original ads
	Recognize the importance of sense imagery and pictures in selling a product or an idea
Speaking	Present an advertisement to the class and identify advertising techniques in them



M	ETHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	Brainstorming	Advertising associate
T	Teacher presentation of meaning of these techniques, use of newspaper and magazine ads, brainstorming	
	Pupils cut out a newspaper or magazine ad and share with each other and the class	Newspapers, magazines
		A.S.
	Write a poem to advertise a season, holiday, etc.	



JNIT TITLE: PRODUCTION AND RETAILING - NEWSPAPER DRIVE

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Sciences	
Supply and demand	Identify the variables that affect the cost when there is an over-supply or shortage of a product
Cooperation	Propose reasons and defend them why the whole group will benefit from the project even though some members do not help or participate
Math	
Profit	Compute profit each week
Graphing	Make a bar graph to keep track of weekly totals of money taken in
Division	Compute amount of money which must be taken in each week in order to reach desired goal for the year
Banking	Prepare a bank account and apply concepts of banking so that weekly earnings may be deposited
Bookkeeping - keeping money and orders	Devise a method to record sales, orders, and money
	Classify territorial earnings showing money collected, orders, projected sales



#### METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

When delivery of old newspapers is made at scrap yard the price is posted. It varies from week to week between 40¢~50¢ cwt (cwt = hundredweight)

Volunteers to help collect and do the weekly work of collecting and delivering newspapers. Kids will soon see who does the work

Add new information to bar graph weekly

Divide - Ex.: needed \$100 how much per week?

Observe jobs at a bank

Each salesman was provided with own territory log

Managers must keep daily records of their salesmen



UNIT TITLE: PRODUCTION AND RETAILING - NEWSPAPER DRIVE (Continued)

#### CONCEPTS

#### BEHAVIORAL OBJECTIVES

As a result of this unit, each child

will be able to:

Career Awareness

People and their job roles:

Purposes

Servicing

Discuss critically the various jobs which are required to operate a scrap yard

Recognize and cite evidence for a system of recycling products (i.e., newspapers, scrap metal)

Identify methods of altering used products so that they may be recycled

#### Self-Awareness

Recognizing emotions and attitudes in others

Given a specific situation, describe the way each child probably feels and explain what made you draw that conclusion

Given a specific activity that a person does, describe the attitude indicated by his actions, and explain what made you draw that conclusion



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
,	g Kin
Visit scrap yard	
Visit scrap yard or recycling center	
Visit scrap yard or recycling center	
•	
	· · · · · · · · · · · · · · · · · · ·
Group benefits drawn despite lack of cooperation from some members of the group	



# UNIT TITLE: PRODUCTION AND RETAILING

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Sciences	. *
Economics	Discuss critically the U.S. economic system including (taxes, insurance, salaries, welfare and cost) Identify the variables in the costs of pro-
	duction (raw materials, labor, property, equipment) Identify the variables in the costs of
	distribution and market demands Compare and contrast the costs involved in handmade products VS automated products
History	Propose and defend reasons for individual construction and assembly line production with regards to the Industrial Revolution
Sociology	Propose reasons and defend them why the whole group will benefit from the project even though some members do not help or participate
Supply and demand	Estimate the number of candy bars territory will buy
Student organization	Organize a territory and elect a good manager
Science	
Change (chemical & physical)	Discuss the chemical and physical changes which may occur in the process of making a finished product from a raw material
Machines	Identify and recognize and discuss the application of the six basic machines (lever, screw, wheel and axle, wedge, pulley, inclined plane)



# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

Small groups to research and present to entire class - hold class discussion

Discuss source and reasons for increase in prices of apples

Volunteer parents and students set up the equipment and prepare the mix for making candied apples

Keeping own territory log as to sales, orders and project future sales

One minute speech as to why a person would be a good manager



# UNIT TITLE: PRODUCTION AND RETAILING (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Measurement	Use linear measurement Measure and compute materials necessary for a product to be made Compare measures of bushel, one-half bushel, peck, pound, in the apple business
Cost-profit	Identify costs and compute profit for products made Compute differences in price
Percent	Compute the depreciation of a product's buildings and equipment over a given period of time
Banking and Accounting	Devise and apply methods of banking and accounting as they relate to a classroom company Use a checkbook
Payrol1	Construct payroll plan by which company employees will be paid
Ratio	Make a scale drawing of product
Communication Skills	
Writing and speaking	Write ads to advertise products Write a sales promotion speech Write orders for products to be made Speak to groups to advertise products
Vocabulary	Identify and use sales terms
Spe <b>aking</b>	Develop a self-confidence to sell door to door and communicate effectively with the public



METHOD OF IMPLEMENTATION

RESOURCE PEOPLE & MATERIALS

Make various projects

Buy materials, keep records - compute profits

Visit a store to buy sugar and cup cake liners

Compare differences in prices of cider - quarts, half gallons, gallons, and cups

Buy apples, mix and sticks at the cider mill or at a store

Role playing

Using wood, plexiglass, cloth or whatever media: measure, cut from their pattern or blueprint

Write advertisements to be given to various other classes

Class discussion

Listen to salesman

Role play with him as the buyer



UNIT TITLE: PRODUCTION AND RETAINING (Continued)

DNCEPTS	BEHAVIORAL OBJECTIVES		
	.c a result of this unit, each child will be		
Δετ			
<b>De</b> sign	Design own product Design and make posters for the purpose of advertising products		
Lettering	Make appropriate lettering for needed projects		
Graphic Communication	Manipulate apparatus needed in the process of silk-screening		
Pattern making	Decide if product needs a pattern or blue- print to construct		
Career Awareness			
People and their job roles			
Reasons Functions Locations	Identify, describe and apply the duties and responsibilities of the managing, financing, and production personnel necessary to run a company		
Managing			
Planning and organizing	Gather data, manipulate ideas, organize data and apply findings in the formation of a company		
Producing			
Purchasing materials	Differentiate among materials so as to purchase the most appropriate ones for product produced		
Processing	Describe the process of making cider commercia Apply methods of forming, separating, and combining where necessary to produce desired		



Inter-relationship of jobs

Detect that a product is designed, patterned, and produced

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
Make color design of product	
Make posters and put up around school to advertise	
Silk-screening	
Make own pattern or blueprint	
•	
	1
Visit a cider mill	
	Personnel worker
Make products	
Design own product, make pattern or blue- print, and construct product	Efficiency expert
· · · · · · · · · · · · · · · · · · ·	



UNIT TITLE: PRODUCTION AND RETAILING (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
Career Awareness (Cont.)	
Packaging	Prepare packaging materials for products manufactured
Servicing	Do the following, as it relates to the product:     a) distribute     b) advertise     c) sell     d) repair
Personnel	
Interviewing	Identify personal qualifications relative to a particular job
Training	Identify needed background for a particular job
Working Conditions	Compare and contrast the economic rewards, physical environments and social environments of various jobs
People and their job roles	
Distribution - sales	Distribute and sell products to clients
Self-Awareness	
Identifying areas for development	Identify which job is best suited for him Explain how information about your skills and abilities can assist you in developing your skills List two factors a person should consider in deciding whether or not to develop skills
	in a specific area Explain how a person's goals, values and interests influence decisions about areas of skill to be developed

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
	,
Discuss appropriate method for each product manufactured	
Role play interviewing	
male along and the sales and drawith by	
Role play product sales and distribution	
Evaluate what I did best - design? pattern? construct? and why	Efficiency expert
Various construction activities	
Interviewing	Personnel worker
242	



#### I. NAME OF ACTIVITY

- A. ROLE PLAYING (DRAMATIZATION OF ORIGINAL ADS EMPLOYING THE SEVEN ADVERTISING TECHNIQUES)
- B. BRAINSTORMING (MARKET, HOW TO DEVELOP ADVERTISING FOR A PRODUCT, HOW TO DEVELOP A DEMAND FOR A PRODUCT, ETC.)

#### II. ACTIVITY FORMAT:

- A. Tools and Materials
- B. Human Aides and Resources

  Advertising associate
- C. Procedures for this activity (with helpful hints)
  - 1A. Have students bring in magazine and newspaper ads; discuss techniques used to sell the products. Examine sense imagery, words, slogans, etc. used in ads. Discuss familiar TV ads. Examine a prepared television commercial. Prepare original scripts that employthe seven advertising techniques.
  - 1B. Mr. Darsky conducted the brainstorming session in a give-and-take manner with the students. He also showed the class items used in his agency's work.

# III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

students became more proficient in organizing written material, in critical thinking, and in learning the vocabulary synonymous with advertising. Mr. Darsky could have devoted more time to displaying the advertising paraphernalia he brought with him.



#### I. NAME OF ACTIVITY

MAKING CANDIED APPLES

#### II. ACTIVITY FORMAT:

A. Tools and Materials

apples pots cup cake liners sticks spoons for mixing measuring cups candy apple mix not plate bags sugar clean-up materials

B. Human Aides and Resources

Parents to supervise - I had five parents to help my 24 students

- C. Procedures for this activity (with helpful hints)
  - 1. For this activity, I bought 115 apples at the Yates Cider Mill. The candy apple mix and sticks were also bought there. The apples could be brought by the students from home, bought at the farmer's market, or picked at an apple orchard.
  - 2. Follow the directions on the package for the mix (allow extra time for the hot plate to heat up).
  - 3. Do not allow the student to hold the apple in his hand while trying to put the stick in.

#### Steps:

- 4. Wash and dry apples.
- 5. Prepare mix as directed on package.
- 6. Dip apples in the mix.
- 7. Place dipped apple in cup cake papers (liners).
- 8. Set apples on a table to harden.
- 9. Place candied apples in a bag to take home.

- 1. Realize that when apples are in short supply, the cost of the apples are expensive.
- 2. Participate in the activity of making candied apples.
- 3. Take home a finished product.



#### I. NAME OF ACTIVITY

MAKING APPLE PIE

#### II. ACTIVITY FORMAT:

A. Tools and Materials (Approx. size of class - 15)

15 cups sifted flour
4, 5 tsp. salt
4 cups shortening
24 tbsp. water
2 cups white sugar
3 tsp. cinnamon
20 cups apples
 (sliced thin)
3 cups brown sugar
1-1/3 cups butter

Measuring cups
Rolling pins
Mixing bowls
Pastry blender
Pie pans
Paring knives
Forks
Measuring spoons
Clean up materials

B. Human Aides and Resources

None

C. Procedures for this activity (with helpful hints)

This activity is in two parts. First, students are placed in assembly line stations and do various duties they are responsible for. Next students take individual ingredients back to their seats and complete their pie.

Before all activity starts, areas and people involved should be inspected for CLEANLINESS.

Stations on assembly line:

#### WORK AREA I

- Apple peelers several
- 2. Apple corers several
- 3. Apple slicers several
- 4. Apple mixers several

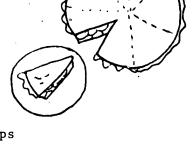
#### WORK AREA II

- 1. Pie crust makers several
- 2. Pie crust rollers several
- Dough cutters several
- 4. Pie Pan Fitters several

#### Routine:

Apples are cleaned, peeled, cored, and sliced, then placed in





containers where an apple mixer mixes necessary ingredients with the apples to make the appropriate pie filling. In a different area the pie crust is made, rolled and fitted into pie pans. At the completion of both work areas, individual students take necessary ingredients from each area and produce their own pie.

WORK AREA I - Apple Mixer's Directions:

# Mix in bowl the following ingredients:

2 cups white sugar
3 tsp. cinnamon
1/2 tsp. salt
20 cups thin apple slices

#### Mix in separate bowl:

3 cups brown sugar 3 cups sifted flour 1-1/3 cups butter

# WORK AREA II - Pie Crust Makers' Derections:

12 cups sifted flour 4 tsp. salt 4 cups shortening 24 tbsp. water Note: This is a large quantity. More would be gained by using smaller recipe and several mixings to allow uniform mixture of ingredients and a more easily mixable dough.

Mix flour, salt and shortening together with pastry blender until mixture holds firmly together. Add water, stirring mixture into a ball, making sure flour is moistened. Divide dough into 5 parts. Roll out dough 2 inches larger than pie plate; fit in pan. Fold up extended 2 inches of pie crust to edge of pan; flute between thumbs and forefingers. Prick crust with fork.

Individual students will then place mixed apples in pie shell, take the blended brown sugar, flour and butter, and sprinkle lightly over the apples. The student has a choice of topping pie with more crust or the brown sugar, flour and butter. The pie will be baked for 35 minutes at 400 degrees.

All left-over ingredients will be frozen and used at a later date to demonstrate how freezing is used to preserve foods.



# APPLICATION BLANK ROOM 22

1.	Name
2.	<b>A</b> ge
3.	Address
4.	Phone
5.	What jobs would you like to do? Choose three.
	PAYMASTER (1) INSURANCE AGENT (1) TAX COLLECTOR (1) WELFARE AGENT (1) SECRETARIES (2)
	INSPECTORS SUPERVISOR OR FOREMAN (2) CUSTODIAN (1) NURSE (1) SUPPLY CLERKS (2) MANUAL LABORERS
6.	Put this list of words into alphabetical order and number them. Copy the list in your best handwriting.
•	choose automobile water survey green glue sticks car pizza agent write please
	1. 7. 2. 8. 3. 9. 4. 10. 5. 11. 6. 12.
· :	List five people in your room that you would obey if they are chosen to be your boss.
:	1. 2. 3.
-	5 <b>.</b>

#### AUTOMOBILE MASS PRODUCTION

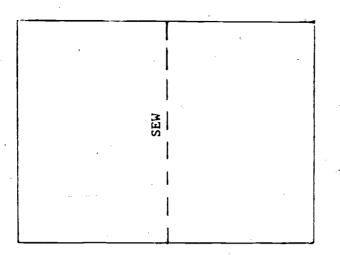
Parts List Per Car (Multiply number of parts of length of wood to determine total material needed per class)

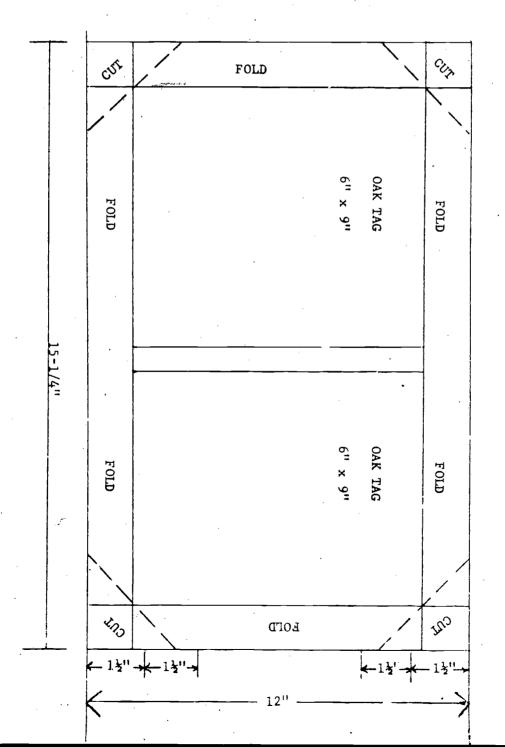
- Wheels
- \*2 Coathanger wire, 4-1/2"
- 1/2" Staples
- Pine, 3/4" x 1-1/2" x 8" Pine, 3/4" x 3-1/2" x 8"
- \*1
- Brads, 1" 4
- 1/8" I.D. 3/8" O.D. Steel Washers

# \*Denotes pieces

- Cut 3-1/2" wide floor board to 8" length (1)
- Mark axle lines 1" from end of floor board (2)
- Cut 3/4" x 1-1/2" blocks to 3-1/2" lengths (3)
- (4) Nail hood to base (2 nails)
- (5) Nail cab to base (from bottom)
- Nail staples to the bottom of the floor boards **(6)**
- (7) Sand front of truck
- (8) Sand sides of truck
- (9) Inspect
- (10)Attach wheels and axle to staples (use 2 washers)
- (11.)Cut axles to 4-1/2" lengths
- (12)Attach one (1) wheel to axle
- (13)Inspect wheel alignment
- $(14)^{-1}$ Attach headlights
- (15)Final inspection

WRITING PAPER 8-1/2x11"





I. NAME OF ACTIVITY

ASSEMBLY LINE PRODUCTION OF BOOKLETS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

construction papertapewriting papergluerulersscissorsneedlesthread

B. Human Aides and Resources

Two parents

- C. Procedures for this activity (with helpful hints)
  - Lay out construction paper to desired dimensions (see drawing)
  - Cut off excess paper and fold
  - 3. Count out the desired number of writing paper and background paper
  - 4. Sew writing paper together
  - Place oak tag into folded portions of construction paper
  - 6. Tape oak tag
  - Glue writing paper onto oak tag

#### Student jobs:

- 1. Layout
- 5. Sewers
- 2. Cutters and folders
- 6. Tape oak in booklets
- 3. Oak tag cutters
- 7. Final assembly
- 4. Paper counters

NOTE: The teacher may wish the students to first make a booklet alone before making a quantity of them on the assembly line production.

I. NAME OF ACTIVITY

BULLETIN BOARD OF "JOBS"

#### II. ACTIVITY FORMAT:

A. Tools and Materials

magazines newspapers

B. Human Aides and Resources

Parents

- C. Procedures for this activity (with helpful kints)
  - 1. Youngsters brought pictures, articles, etc. from home
  - 2. Group classified these as to products or services
  - 3. Group classified these then as to type sports, etc.
  - 4. Group arranged a bulletin board



#### I. NAME OF ACTIVITY

CONSTRUCTING WOODEN BOOK HOLDERS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

saws (dremel, coping, crosscut)
vises and clamps (bench)
two 8" x 8" plywood (to 1/2" thick)
sandpaper blocks
stain for wood
varnish or shellac
sandpaper
wood files

B. Human Aides and Resources

Teacher's aide Learning Resource Teacher (Parents and carpenters also suitable)

- C. Procedures for this activity (with helpful hints)
  - 1. Cut 8" x 8" plywood squares from sheet. Dremel saw will cut to 1/2" thickness. Otherwise, coping or crosscut saws required
  - 2. Outline form of book holders onto plywood squares with pencil or crayon
  - 3. With thin blade in dremel saw or with coping saw, cut pattern of book holders from square
  - 4. File edges of book holders with wood file if edges are rough
  - 5. Sand book holders smooth with grain: with coarse or medium and fine (to finish) sandpaper (coarse or medium determined by how rough wood is)
  - 6. Stain or prime book holders. Let dry
  - 7. Shellac, paint or varnish book holders. Let dry



#### I. NAME OF ACTIVITY

CONSTRUCTING WOODEN BOOK SHELVES

### II. ACTIVITY FORMAT:

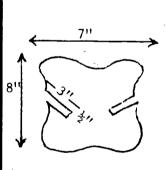
A. Tools and Materials

saws (coping, crosscut, dremel)
vises and clamps (bench)
two 8" x 7" plywood (to 1/2" thick)
sandpaper blocks
sandpaper
wood stain
varnish or shellac
wood files

B. Human Aides and Resources

Teacher's Aides Learning Resource Person (carpenters, parents also suitable)

- C. Procedures for this activity (with helpful hints)
  - Cut 7" x 8" plywood squares from sheet. Dremel saw will cut to 1/2" thickness. Otherwise, coping or crosscut saws desirable
  - Outline pattern of book shelves on plywood squares with pencil
  - With thin blade in dremel saw or with coping saw, cut patters from plywood squares
  - 4. File edges of book holders if rough with wood file
  - 5. Sand book holders with grain until very smooth begin with coarse or medium sandpaper (depending on how rough wood is). Finish with fine sandpaper
  - 6. Stain or prime book shelves. Let dry
  - 7. Paint, shellac or varnish book shelves. Let dry
  - 8. Cut  $8'' \times 3'' \times 1/2''$  (two) boards of plywood. Sand, prime and paint. Let dry
  - 9. Insert wood boards into slots of pattern



I. NAME OF ACTIVITY

SALESMAN OR DISTRICT MANAGER

#### II. ACTIVITY FORMAT:

A. Tools and Materials

None

- B. Human Aides and Resources
- C. Procedures for this activity (with helpful hints)
  - 1. Each group met as a territory
  - 2. Criteria to be a manager:
    - a) Have sold door to door
    - b) Volunteer to apply for job
  - 3. Each volunteer had one minute to prepare WHY he would make a good manager
  - 4. Each presented their talk
  - 5. Election was held



I. NAME OF ACTIVITY

DISTRICT MANAGERS - JOB

### II. ACTIVITY FORMAT:

- A. Tools and Materials

  Ledger for each salesman
- B. Human Aides and Resources
  None
- C. Procedures for this activity (with helpful hints)
  - 1. Each district manager set up books
    - a) Listed each salesman
    - b) Number of candy bars taken
    - c) Many brought in daily
    - d) Help to project future ordering
  - 2. Checks to see that salesmen stayed in own territory

#### I. NAME OF ACTIVITY

MAKE "BOOMERANG" GAME

#### II. ACTIVITY FORMAT:

A. Tools and Materials

sabre saw shaper power drill and kits sandpaper stain and varnish
marbles
1 x 2 white pine #2

B. Human Aides and Resources

Parents to help supervise use of power tools

C. Procedures for this activity (with helpful hints)

Draw pattern (see attached). Trace pattern on wood and punch holes for drilling. Cut wood with sabre saw. Drill holes. Use shaper to smooth out rough cutting. Sandpaper till smooth. Stain varnish. Put finished product plus 8 marbles into "baggy." (Marbles: 4 red, 4 blue)

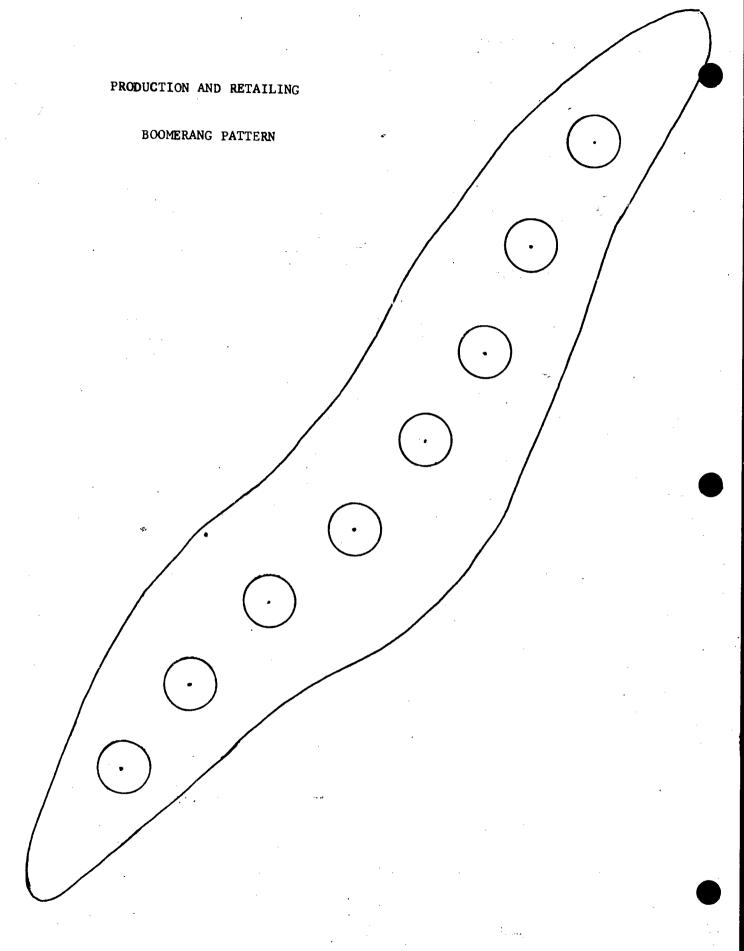
BOOMERANG PUZZLE



To set up this puzzle, put the marbles in the cups, all of one color on one side and all of the other color on the other side, leaving the center cup vacant.

The purpose of the puzzle is to move or jump the marbles to the opposite sides, one at a time, without moving any piece backwards. Moving or jumping is similar to checkers.





# I. NAME OF ACTIVITY

ASSEMBLY LINE - MAKING GEOBOARDS GAME

# II. ACTIVITY FORMAT:

#### A. Tools and Materials

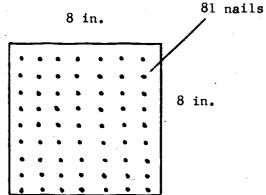
hammers.	3/4" 17 finishing nails
saws	4 cans spray paint
C clamps	3/4" graph paper
sanding blocks	masking tape
plywood	newspapers (to cover tables for painting)

#### B. Students involved

2	т. с	arpenters	2	-	remove papers
5	~ s	anders	2	-	painters
2	- c	utters	4	-	inspectors
2	- t	apers	1	-	foreman
10	- h	ammerers			200

# C. Procedures for this activity (with helpful hints)

- 1. Cut pieces of plywood into 8 in. square
- 2. Sand pieces of wood
- 3. Cut graph paper to fit square of wood
- 4. Tape graph paper to wood square
- 5. Hammer nails at intersection of points on graph paper (81 per 8 in. sq.)
- 6. Remove graph paper
- 7. Spray paint each geoboard



# I. NAME OF ACTIVITY

TIC - TAC - TOE GAME

# II. ACTIVITY FORMAT:

A. Tools and Materials

saw sandpaper ruler marbles power drill 1x6 #2 W.P. special drills

B. Human Aides and Resources

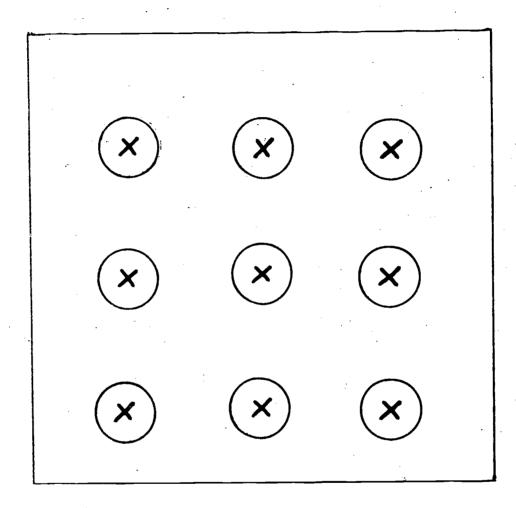
Parents

C. Procedures for this activity (with helpful hints)

Draw a square. Cut board with saw. Trace holes with a pattern. Drill holes. Sand and finish.



# TIC - TAC - TOE PATTERN



#### I. NAME OF ACTIVITY

PERSONNEL INTERVIEWING BY SPEECH STUDENTS

### II. ACTIVITY FORMAT:

A. Tools and Materials

career reference materials typewriter ditto masters mimeograph machine tape recorder

B. Human Aides and Resources

Speech therapist Teacher's Aide Secretary (verbal instructions)

- C. Procedures for this activity (with helpful hints)
  - Researched information on job requirements. Worked up job descriptions
  - 2. Decided on information needed for decisions
  - 3. Prepared application blank and interview form (sample attached)
  - 4. After instruction by secretary and teacher's aide, typed masters and ran off application blanks and interview forms
  - 5. Discussed interview techniques and ethics
  - 6. Practiced with tape recorder
  - 7. Explained application and interview jprocedures to class
  - 8. Interviewed, discussed results and made job recommendations
  - Formed cadre to continue interviewing as replacements are needed
  - 10. Reviewed tapes of interviews to analyze speech performance



#### INTERVIEW FORM

- Do you like math?
- 2. Are you well organized?
- 3. Are you good at math?
- 4. Could you handle money without making mistakes?
- 5. Are you interested in medicine?
- 6. Do you get upset when you see blood?
- 7. Do you feel sorry for people when they are hurt or in trouble?
- 8. What kind of work do you like best?
- 9. What are your hobbies?
- 10. What qualifications do you think an executive should have?

NAME OF ACTIVITY

MAKING BAG HOLDER

# II. ACTIVITY FORMAT:

Α. Tools and Materials

> saw (crosscut) miter box drill - 2 bit - counter sink wire on bolt cutter

brush - 2 inch varnish sandpaper 1x2 hardwood steel wire (clothesline) varnish screws - 2 for mounting

B. Students involved:

2 for step 1 1 for step 2 1 for step 3 1 for step 4 2 for step 5 3 for step 6 3 for step 7 4 for step 8

- C. Procedures for this activity (with helpful hints)
  - 1. Cut wood to size (6" lengths)
  - 2. Drill holes for wire (according to size wire)
  - 3. Drill holes for mounting

  - 4. Counter sink mounting holes (could be combined)
    5. Cut wire to length 1 @ 30", 1 @ 24", 1 @ 16". Straighten
    6. Bend wire over pegs or forms

  - 7. Insert wires in holes
  - 8. Sand
  - 9. Varnish

#### I. NAME OF ACTIVITY

MARKETING BAG HOLDER AT FUN FEST OR WHAT HAVE YOU

### II. ACTIVITY FORMAT:

A. Tools and Materials

pencils
rulers
color (paint, crayons, magic marker, glue, etc.)
colored paper
poster board
brushes
scissors
chalk

Students involved:

No more than two to a poster from copy to finished product

- C. Procedures for this activity (with helpful hints)
  - 1. Write copy for poster
  - 2. Layout of poster (block in main elements)
  - 3. Complete drawing
  - 4. Add color or: cut elements from paper paste on glue or poster board



I. NAME OF ACTIVITY

MAKING FILE BOXES

# II. ACTIVITY FORMAT:

A. Tools and Materials

boxes
cards
Exacto knives
tape
glue

B. Human Aides and Resources

School secretary Parents Custodian

- C. Procedures for this activity (with helpful hints)
  - Each was to make or find something to use as a box for cards
  - 2. Cut down kleenex boxes, school boxes, etc.

#### I. NAME OF ACTIVITY

PAYDAY

#### II. ACTIVITY FORMAT:

A. Tools and Materials

mimeo machine (duplicator)
pencils
green paper for money
posters for payroll and deduction counters
master (duplicator) for money design
bank (safe, box, etc.)
payroll time voucher

#### .B. Students involved:

1 collector and 1 secretary for each counter involved on payday (wages, insurance, welfare, taxes, personal & group deductions)

- C. Procedures for this activity (with helpful hints)
  - 1. Determine days worked
  - 2. Bi-weekly pay distributed
  - B. Deductions taken out
  - 4. Money kept or banked
  - 5. Classroom materials and bills (electric, heat) paid for



I. NAME OF ACTIVITY

**PAYDAY** 

#### II. ACTIVITY FORMAT:

A. Tools and Materials

fake money signs for payroll personnel desks for payroll personnel

B. Human Aides and Resources

Royal Oak Payroll personnel

C. Procedures for this activity (with helpful hints)

Invite guest speakers to the classroom to discuss payday procedures, taxes, insurance and other deductions and why they are paid. Brainstorm with the class about amount of wages, bonuses and deductions they would like to employ in their payday. Through interviewing, employ certain classmates as payday personnel. Set up classroom in feasible manner, denoting each station as "wages," "insurance," "deductions," "taxes," etc. Have students compute their gross wages, personnel employees compute deductions from pay, and banker handle change. Proceed to pay out and collect wages and deductions. Use net pay in classroom later to purchase classroom materials, etc.



#### I. NAME OF ACTIVITY

BAKING PIZZA (for about 8 people)

#### II. ACTIVITY FORMAT:

#### A. Tools and Materials

l envelope dry yeast	1-1/2 c. drained canned tomatoes
2 T. warm water	1/2 c. chopped onions
1 c. boiling water	1/2 t. basil
1 T. shortening	1/2 t. oregano
1 t. salt	pepper
1/2 t. sugar	1/2 c. spaghetti sauce
3 c. presifted flour	1/2 c. sliced pepperoni
8 oz. shredded pizza cheese	• • •

### B. Procedures for this activity (with helpful hints)

- 1. Preheat oven to 425 degrees F. Grease pizza pan.
- Soften yeast in warm water in small bowl. Let stand 5 minutes. Stir till dissolved.
- 3. Pour boiling water over shortening in bowl. Add salt and sugar. Stir until smooth. Cool to lukewarm. Stir in yeast.
- 4. Gradually add flour beating well to soft dough. Knead on lightly floured board until smooth. Stretch and pull to fit pan. Let rise in warm place for 15 minutes. Sprinkle on cheese. Top with tomatoes. Sprinkle with onions, basil, oregano and pepper. Spread on spaghetti sauce and pepperoni.
- 5. Bake in preheated oven for 25 minutes or until crust is golden brown. Cut into wedges.

#### I. NAME OF ACTIVITY

MAKING RULERS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

saw - straight edge
standard unit of measure
miter box
drill
wood

sandpaper
paint
varnish
paint brushes
magic marker - fine line

- B. Students involved:
  - 9 in each line 3 lines
- C. Procedures for this activity (with helpful hints)
  - 1. Make pattern (sample ruler)
  - 2. Cut wood to length (1 ft. 36 in. etc.)
  - 3. Using template (pattern) encircle marks on raw wood
  - 4. Drill 1/8" hole at 1" mark in center of ruler
  - 5. Lightly sand wood
  - 6. Place numbers by appropriate marks, use fine line magic marker
  - 7. Varnish and hang to dry



I. NAME OF ACTIVITY

SALES TALKS

### II. ACTIVITY FORMAT:

- A. Tools and Materials candy bars we sold
- B. Human Aides and Resources

Salesman

- C. Procedures for this activity (with helpful hints)
  - 1. Points salesman brought out:
    - a) Always apologize for bothering them first
    - b) Briefly state your purpose
    - c) Would you like to buy two for a \$1.00 or one for 50 cents?
    - d) Be sure to SMILE
  - Role playing with several students developing their sales talks
  - 3. He bought from each student that tried told them to always "know your product" - so we sampled the candy they were more enthusiastic

I. NAME OF ACTIVITY

SALES TERRITORY AND SALESMAN

# II. ACTIVITY FORMAT:

Α. Tools and Materials

> city maps that show house numbers map tacks (3 colors) individual territory log

- Procedures for this activity (with helpful hints) В.
  - 1. Three territories were set up
  - 2. Each student lives in their territory
  - 3. Each given own sales log (see attached sheet A)
  - 4. Salesmen each put their own tacks on territory map
    - a) Red sales
    - b) White order
    - c) Black no sales
  - 5. Took future orders
  - 6. Projected future sales to determine ordering second

#### SALES TERRITORY SHEET

# EMERSON ENTERPRISES

Candy Division

District		Mana	ger	
Sales Representat	ive	·		
Territory (street	:)	·		<u> </u>
House Numbers	Date	Sales (\$)	No Contact	Order
*Each was listed before given out				
			3	
	•			
				·
:		· .		
TOTAL		979		•

I. NAME OF ACTIVITY

DEVELOP SALES VOCABULARY

### II. ACTIVITY FORMAT:

A. Tools and Materials
None

B. Human Aides and Resources

C. Procedures for this activity (with helpful hints)

The following vocabulary was developed first through group discussion:

Enterprise
Sales log
Territories
Sales representatives
District Managers
Persuasive
Sales projection
Accounts
Graphs
Sales talks



#### I. NAME OF ACTIVITY

SILK SCREENING OF PENNANTS, BANNERS AND CUSHIONS

#### II. ACTIVITY FORMAT:

#### A. Tools and Materials

wrapping paper
1 x 2" wood
nails
saws, hammers
hinges
T-square
thread, needles
foam
organdy

scissors
yardsticks
brayers
ink
material - felt
broadcloth

sewing machine

screwdrivers

B. Human Aides and Resources

College students
Parents
Art teacher
Professional artist

- C. Procedures for this activity (with helpful hints)
  - Each child submit design, analysis and selection of design.
  - 2. Make frames stretch and attach organdy (this does not work for large screens).
  - Hinge screens to table.
  - 4. Measure and cut fabric, print.
  - 5. Sew cushions together, insert foam, hand stitch fourth edge. Attach streamers to pennants and banners.

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- Package and deliver finished product.
- 7. Collect money.

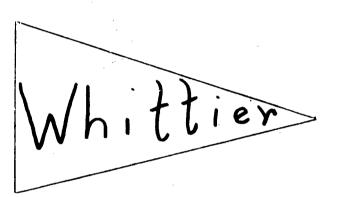
1

PRODUCTION AND RETAILING

SILK SCREENING PATTERNS

Whittier

CUSHION 12" 12"



PENNANT

12" 28"



BANNER

18" 24"

#### I. NAME OF ACTIVITY

MAKING A SLIDE-TAPE PRESENTATION FOR PARENTS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

tape recorder written material slides projector screen

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - Have students view all slides taken from trip to W. T. Grant.
  - 2. Let them each pick a designated number of slides to explain, through writing.
  - 3. Write description of slide.
  - 4. Practice reading description, slowly and distinctly.
  - 5. Tape students' descriptions to go along with slides.
  - 6. Time slides and tape to go together.
  - 7. Present program to parents.



I. NAME OF ACTIVITY

WORK-STUDY PROGRAM AT W. T. GRANT

#### II. ACTIVITY FORMAT:

A. Tools and Materials

manual from W. C. Grant

B. Human Aides and Resources

Manager of W. T. Grant Personnel at W. T. Grant Learning Resource Teacher

- C. 'Procedures for this activity (with helpful hints)'
  - Study background information about store including jobs involved and services performed.
  - 2. Invite manager over to the classroom to talk with students about store and jobs.
  - 3. Have students choose what job they would like to have at the store.
  - 4. Make name tags for each student.
  - Go to store, work at designated jobs, with actual worker from store, from 9:00 a.m. to 12:30 p.m.
  - 6. Discuss, once back at school, just what each student did; pros and cons of each job.



UNIT TITLE: UNICEF

CONCEPTS	BEHAVIÖRAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Science	·
Economics	Identify the variables in the costs of food
	Form a company and operate on a profit basis
Communication Skills	
	United the art and are
Writing	Write thank-you notes
Reading	Read and follow directions
Math	·A ·
	•
Cost-Profit	Compare prices when buying
Money	Count money, make change, and prepare for bank
Bookkeeping	Set up a simple profit and loss account for each company
Fractions	Formulate recipe changes
	278

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Set up nine companies, each with officers and workers	
Use recipes needed to prepare food	
Visit several food stores	
Prepare money for bank	
Set up company books	
Change recipes to fit need	-
279	

UNIT TITLE: UNICEF (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Art	
Design	Design and make advertising posters
Career Awareness	
People and their job roles	
Fast food services	Identify personal qualifications relative to a particular job
Bank	List jobs you think are available
Self-Awareness	
Building self-confidence	Describe how knowing what you can do and can't do well affects your attitude and behavior



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Make posters for lunch	
•	
Visit and observe people working at their jobs	Burger King Wayne Oakland Bank
Discuss some types of jobs that are	
better suited for certain people (e.g., a person who likes and does well in math might like a bank job)	

I. NAME OF ACTIVITY

ADVERTISING FOR UNICEF

# II. ACTIVITY FORMAT:

A. Tools and Materials

construction paper large white butcher paper crayons magic markers

B. Human Aides and Resources

Material supplied by UNICEF Tribune reporter

- C. Procedures for this activity (with helpful hints)
  - Small posters for halls telling what labels will buy for UNICEF
  - Large (floor to ceiling) thermometers for each type of label (swifts, welch, clark gum, etc.) showing how much has been brought in each day (keep up daily).
  - 3. Lunch was an added activity so we quickly made posters for that.
  - 4. Writeup and picture of lunch in Tribune was excellent.



I. NAME & ACTIVITY

COLLECTING LABELS FROM COMMERCIAL PRODUCTS FOR UNICEF FUND

#### II. ACTIVITY FORMAT:

A. Tools and Materials

boxes for each product to put labels in

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Each student was a member of a label group.
  - 2. As labels were brought in, they were counted and put in individual boxes.
  - Thermometers in hall, indicating progress, were kept up daily.
  - 4. End of project, all labels were boxes, tallied and sent to UNICEF.

### LABELS USED:

- 1. Clark Gum
- 2. Royal Pudding
- 3. Swift Premium Franks
- 4. Welch's Jelly
- 5. Willy Wonka Candies
- 6. Cap't Crunch
- 7. Kcol-Aid



Abdododododott

# I. NAME OF ACTIVITY

FORMING A COMPANY AND SETTING UP SIMPLE BOOKKEEPING ACCOUNTS FOR UNICEF LUNCH

### II. ACTIVITY FORMAT:

A. Tools and Materials

large notebook notebook paper rulers

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Set up UNICEF Lunch Co. with officers
    - a) president
    - b.) secretary
    - c) treasurer
  - 2. Subsidiary Companies
    - a) Hot Dog Co.
    - b) Sandwich Co.
    - c) Chips Co.
    - d) Milk Co.
    - e) Kool-Aid Co.
    - f) Jello Co.
    - g) Pudding Co.
    - h) Apple Co.
    - i) Candy Co.

(these companies represent what was served at lunch)

- 3. Simple accounts were set up. Money for each company was computed by the number of orders, i.e., 200 hot dogs at 15¢ equals \$30.00. All expenses were deducted and profits were sent to UNICEF.
- 4. UNICEF Lunch Co. wrote all checks for each company and kept master books.

retrained and what about the

#### HANDS ON ACTIVITY (STUDENT PERFORMED)

### I. NAME OF ACTIVITY

SHOPPING FOR UNICEF LUNCH

#### II. ACTIVITY FORMAT:

A. Tools and Materials

shopping list checks to pay for food permission slip to go at any time during school hours

B. Human Aides and Resources

Teacher to drive

- C. Procedures for this activity (with helpful hints)
  - 1. Each company met and compiled their shopping lists.
  - 2. Teacher took each company on one day to shop.
  - 3. President or treasurer of Lunch Co. had to go to write check each time.

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#### HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

SELECTING MENU AND TAKING ORDERS FOR UNICEF LUNCH

#### II. ACTIVITY FORMAT:

A. Tools and Materials

stencils 3 colors of ditto paper

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Selecting well balanced menu, fair prices for each item, type up stencil and run off on 3 colors (each color represented each of 3 days lunch was served).
  - 2. Collecting orders and money. Each was checked to see if order and money was correct.
  - 3. Compile individual orders for each company for each day.



I. NAME OF ACTIVITY

COOKING UNICEF LUNCH

#### II. ACTIVITY FORMAT:

A. Tools and Materials

school kitchen
daily menu amounts to prepare

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Set up on wall, sheets with amounts needed, i.e., 40 hot dogs, 10 sandwiches, 15 chips.
  - 2. Jello group was always first because of time needed to set.
  - 3. Pudding group made instant pudding.
  - 4. Sandwich Co. made peanut butter and jelly sandwiches.
  - 5. Make up 3 kinds of Kool-Aid.
  - 6. Apples were washed.
  - 7. Chips were put in individual bags.
  - 8. Hot dogs were cooked just before lunch time.



I. NAME OF ACTIVITY

PRODUCTION LINE FOR UNICEF LUNCH

# II. ACTIVITY FORMAT:

A. Tools and Materials

long tables (5) covered with white butcher paper in gym by kitchen lunch tables in gym waste paper baskets trays from Kimball

B. Human Aides and Resources

Extra adults to supervise hot dog cooking

- C. Procedures for this activity (with helpful hints)
  - 1. Tables set up.
  - Chart for each person's job for the day. (For example: one person would serve one day, act as waitress second day, and third clean-up.)
  - Set up food in order of menu backwards (starting with desserts and ending with hot dogs to keep them hot!!!)
  - 4. Classes were given back their order and brought to line.
  - 5. Order and tray followed down line and food put on.
  - 6. End of line, order was checked and waitress took tray to seat.

I. NAME OF ACTIVITY

CLEAN-UP FOR UNICEF LUNCH

#### II. ACTIVITY FORMAT:

A. Tools and Materials

sponges
pails of water
mop

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - 1. As this was to be like a restaurant, students just left their tables when finished.
  - 2. Food was put away first.
  - 3. Tables were washed and put away.



# I. NAME OF ACTIVITY

TRICK OR TREAT FOR UNICEF

#### II. ACTIVITY FORMAT:

A. Tools and Materials

UNICEF boxes money rolls from bank

B. Human Aides and Resources

Teacher

- C. Procedures for this activity (with helpful hints)
  - A tentative order was taken for each room as to the number of boxes needed.
  - Obtained boxes from local supplier (Bloomfield Hills Volunteer).
  - Boxes handed out on Halloween (lists with names were kept for each room)
  - 4. Collection of boxes the next few days
  - 5. Counting and rolling up money for banking

# III. RESULTS OF THIS ACTIVITY

More money was collected this year than ever before and the class felt it was because of the successful lunch.





SCIENTIFIC REASONING

#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

### INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

SCIENTIFIC REASONING

GRADE LEVEL:

5-6

GENERAL OVERVIEW: Guiding students to hypothesize about the outcome of science experiments and to be able to check and revise

their ideas in terms of results.

### TEACHING/LEARNING RESOURCES:

#### 1. Reference Materials:

Show as introduction to unit:

Film - Study Skills - 11 minutes

Film - Simple Demonstrations with Water - 14 minutes

UNIT TITLE: SCIENTIFIC REASONING

ONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Sciences	
Sociology	Organize the class into groups for science experiments
Science	
	Collect materials for liquid experiments
•	Draw sketches of liquid experiments
	Write observations of liquid reactions in experiments
	List comparisons of liquid reactions in experiments
Communication_Skills	
Communication_Skills Listening skills	Follow oral directions
_	Follow oral directions Organize work into proper headings
Listening skills	
Listening skills Writing skills	Organize work into proper headings
Listening skills Writing skills	Organize work into proper headings  Discuss causes of experimental activity
Writing skills	Organize work into proper headings  Discuss causes of experimental activity



<u> </u>	*	
METHOD OF IMPLEMENTATION	of Sections	RESOURCE PEOPLE & MATERIALS
Set up experiments with liquids		
		` \ \ \
Use the experiments with liquids		
		6 m
,		

Use experiments with liquids



UNIT TITLE: SCIENTIFIC REASONING (Continued)

BEHAVIORAL OBJECTIVES
As a result of this unit, each child will be able to:
Deduce how the concept of management (planning, organizing and controlling) is an important part of the process of scientific reasoning
List four to six steps involved in research- ing a problem
*** ···

Facilitating Personalized Planning and Decision-Making

Describe one advantage of an empirical approach to planning based on knowledge of personal characteristics

METHOD OF IMPLEMENTATION

RESOURCE PEOPLE & MATERIALS

Use experiments with liquids

Personnel worker

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Organization of selves into groups, management of experiments



# I. NAME OF ACTIVITY

EXPERIMENTS WITH LIQUIDS

#### II. ACTIVITY FORMAT:

See attached sheet for experiments to follow this procedure:

Procedures for this activity (with helpful hints)

- 1. Follow each experiment with this procedure
  - a. State objective
  - b. Hypothesize results
  - c. Plan procedure
  - d. Plan record keeping
  - e. Prepare to make drawings
  - f. Assemble all materials
  - g. Perform experiment
  - h. Discuss observations
  - i. Discuss several possible causes
  - j. Repeat experiment if necessary
  - k. Discuss modification of experiment
  - 1. Discuss results
  - m. Discuss relationship to life situations

# III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

This is an excellent opportunity to become acquainted with your class in the fall. It is suggested you have students work in pairs or groups of three to five.



#### References:

Kitchen Physics developed by the Elementary Science Study and published by Webster Division, McGraw Hill Book Company.

#### Drops and Heaping

Trays
Plastic medicine cups
Bucket of water
Medicine droppers
Waxed paper
Plastic wrap
Aluminum foil
Paint dishes
Small pieces of wood and cork

Paper plates
Refuse bucket
Soapy water solution
Cooking oil w/dropper
Alcohol
Paper towels
Newspapers
Drawing paper

- I. What does a drop of liquid look like? Place a few drops of water on wax paper and observe.
  - 2. How small a drop can you make? How does a tiny drop differ in appearance from a "blob" made of several regular-size drops?
  - 3. Can two small drops be made to form a single larger drop on the wax paper?
  - 4. Do water drops leave "tracks" as they move across the wax paper?
  - 5. How does newsprint look when observed through a drop of water resting on wax paper? On plastic wrap?
  - 6. Do water drops on wax paper differ from drops on plastic, or aluminum foil, or paper toweling?
  - 7. Do drops of alcohol or oil or soapy water differ from drops of tap water when placed on wax paper? Draw pictures of each; be sure to label your pictures.
  - 8. How does newsprint look when observed through a drop of soapy water? Compare the soapy water drop with the drop of plain water.
- How much water can you put in a paint dish?

  Fill a plastic cop with water without letting it overflow. Place he dry cup on a paper towel so that you will notice if it overflows later. HOW MANY DROPS OF WATER DO YOU THINK YOU CAN ADD TO THE WATER IN THE CUP BEFORE IT WILL OVERFLOW? Begin adding drops of water to the cup with a medicine dropper. Count the drops that you add until the cup overflows. Observe the water surface as you add the drops. DRAW A PICTURE OF THE CUP WITH A LOT OF WATER IN IT.
- III. 1. Can you get an oil drop to Etc. a top of a water pool? Can you get a water drop to stay on top of an oil pool?



- 2. If an oil drop, water drop, and soapy-water drop are rolled down a slanted surface (paper plate) which wins the race? What happens if you run the race a second time using the same tracks?
- 3. What happens to a small sliver of aluminum foil that has been placed on the top of the "heaped-up" water in a plastic cup? Try a small drop of oil the same way.
- 4. What happens if you place a small piece of cork or wood on top of the heaped-up water? Place a piece of wood near the edge of the water and observe.

# Tugs-of-War and the Skin-Like-Effect

Lightweight thread Liquid soap Medicine droppers Soap solutions Shallow dish 6" in diam. or more Flat tray

8 or 9 inch aluminum pie plate Plastic cups Food coloring Talcum powder Cooking oil Paper clips

IV. Soap in a floating loop of thread.

Make a loop out of a piece of lightweight thread about a foot long. Float the loop on the surface of water in a shallow paint dish. Be sure the dish is clean and free of soap contamination. Carefully place a single drop of soap solution inside the loop on the water surface.

NOTICE THE EFFECT ON THE LOOP OF THREAD. If at first you do not succeed with this one, try, try again. It is worth the trouble.

#### REPEAT WITH VARIATIONS:

- What would happen if the soap solution drop was added to the water outside the loop. Try this with a fresh dish of water.
- 2. Would a drop of plain water have the same effect as the drop of soap solution?
- 3. After you have added a drop of soap solution to the water, is there any additional effect from adding other drops of soap solution?
- V. Alcohol versus water.

  Place a thin layer of colored water on a shallow paint dish.

  Spread the layer of colored water as thinly as possible across the dish. WHAT WILL HAPPEN WHEN A DROP OF ALCOHOL IS ADDED TO THE WATER? Place the alcohol on the water and observe the effect.
- VI. The talcum powder Tug-of-War.

  Sprinkle talcum powder on the surface of water in a pie plate. When the water is motionless,

  PLACE A SINGLE DROP OF SOAP SOLUTION NEAR THE CENTER OF THE POWDERED WATER SURFACE.



# REPEAT WITH VARIATIONS

- 1. Start over with fresh water and talcum powder.
  Place single drop of plain water near the center
  and observe. Compare this effect with that of the
  soap-water drop.
- 2. Place a drop of soap water near the edge of the dish.
- Try the same thing using alcohol instead of soapwater.

#### VII. A Delayed Tug-of-War

Estimate a 1/2 teaspoon of cooking oil and place it near the center of a shallow dish of colored water. WHAT DO YOU THINK WILL HAPPEN IF YOU PLACE A DROP OF SOAP ON TOP OF THE OIL?...IF YOU THEN TOUCH THE WATER NEAR ONE SIDE OF THE OIL WITH A DROP OF SOAP SOLUTION?

Repeat the process using alcohol instead of soap solution.

Wait for the effect! Remember, this is a delayed tug-of-war.

#### VIII. Floating on "Skin"

Partially fill a container with water. A large surface (pie plate) with shallow water is best. Be sure the water is free of soap. TRY TO FLOAT A PAPER CLIP ON THE WATER SURFACE. Practice until you are able to do this. You may want to fashion a tool to help you do this. Use a second paper clip to make this tool.

When you have a paper clip floating, OBSERVE THE WATER SURFACE NEAR THE PAPER CLIP. Add a drop of plain water to the surface near the clip to see if it has any effect. Add a drop of soap solution in the same way. Note the effect of soap.

Float a toothpick on water. See if there is any effect on it when soap is added to the water.

#### The Rise of Water in Blotter Strips

(12-16" blotter strips (1/2", 1", 2", 1 1/2" wide Shallow dish for ends of blotter Masking tape Shallow dish for ends of strips Support for blotter strips

IX. The Rise of Water in Blotter Strips

Arrange long (12 to 18 inches) blotter strips of various widths (1/2 in., 1 in., 2 in., etc.) in an upright position so that the lower ends may be submerged in a tray of colored water. Observe the rise of liquid in the blotter strips over a 24-hour period.

Repeat the above activity, but this time cover the new blotter strips with plastic-wrap so that water cannot evaporate from the blotter strips. Observe the climbing water over a 24-hour period.

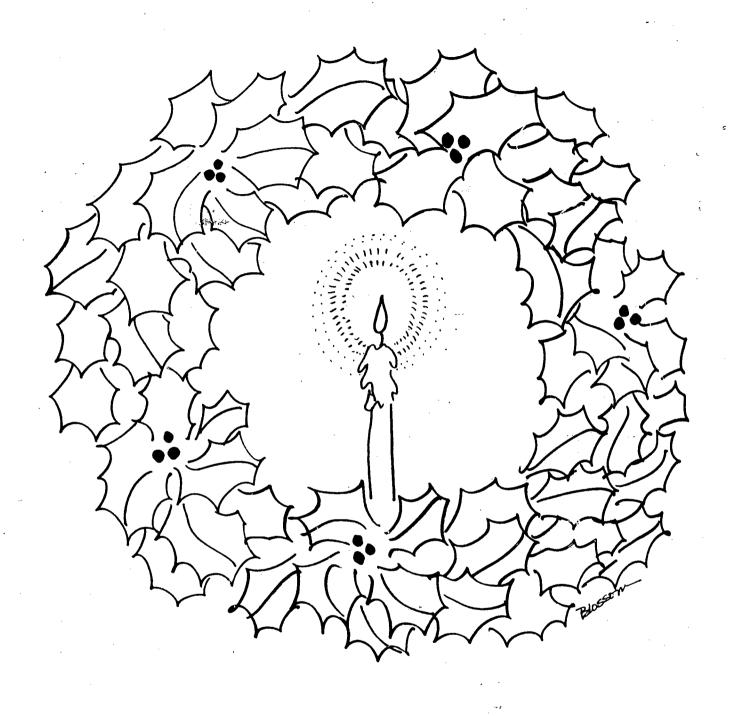


# STUDENT WORK SHEET

Experiment #	Name	Date
•	Others in group	
	1. 2. 3. 4.	
1. What are you trying	5. to find out?	
2. What do you think wi	11 happen?	
3. Number and answer or	diagram all the questions	in Your experiment

4. Have you ever noticed any of the above things happening in life around you at home and other areas where you work or play?





SEASONAL PROJECTS

#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

SEASONAL PROJECTS

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

In this Seasonal Projects section, the following integrated teaching units have been combined and/or presented as a tentative guide for ideas in, application to or relevance to the upper elementary classroom.

#### TEACHING/LEARNING RESOURCES:

# 1. Reference Materials:

Books:

McCall's Book of Paper, Wood and Paint Crafts

Magazines:

<u>Instructor's Magazine</u> - December, 1972 <u>McCall's Magazine</u> - December, 1972

Films:

Tools and Their Uses - Instructional Materials Center

#### 2. Field Trips:

Bavarian Village - Frankenmuth, Michigan Birmingham Lumber Fabric Center Frank's Trims J. C. Penney John R. Lumber Lawson Lumber

#### 3. Human Resources:

Macomb Community College students

#### 4. Activities Listed:

Brainstorming on format of unit activities (what to do, etc.)
Construction of Keyboards
Cookie-type decorations
Ball ornaments



# 4. Activities Listed: (continued)

Felt decorations
Paint by number
Popcorn and cranberry strings
Macaroni decorations
Make a tie
Make an apron
Do creative stitchery
Make a picture frame
Design a picture
Sale of decorations
Role playing:

Purchasing agent, semi-skilled worker constructing decorations
Banker - cost accountant - paying bills for materials, save
profit for contribution to school
Quality control - save number stubs, keep track of which
children selling how many decorations
Writing reports on history of Christmas decorations
Construct charts on the history of tools
Discussions on the history of Christmas decorations

UNIT TITLE:

SEASONAL PROJECTS

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child
	will be able to:
Social Sciences	
Economics	Explain profit and loss in selling Devise a means to raise money as a contribution to school library's purchase of carpeting
History	Recognize and identify old and new
	Christmas decorations
	Relate the history of old Christmas ornaments and decorations
Sociology	Recognize cooperation as a desirable quality in production
Science	
Heat	Discover the best method of cooking ingredients in recipe
P <b>l</b> ants	Identify organic raw materials used in creative stitchery (popcorn,
	macaroni, etc.)



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Selling ties, aprons, creative stitchery, picture frames	
Write a report on or discuss the history of Christmas decorations	·
Construct a chart illustrating early man's tools Write a report on early man's tools	
	•
Baking pizza, cookies	
Creative stitchery	



SEASONAL PROJECTS (continued)

UNIT TITLE: SEASONAL PROJECTS (continued)	en en
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Measurement	Measure ingredients in recipes Measure length and width of wood and cloth with a ruler Space hooks and pegs on finished keyboards
Quantity	Compute amount of materials needed for production of Christmas ornaments
Time	Compute time in obtaining materials for unit
Distance	Compute distance involved in obtaining- materials for unit
Money	Compute cost of materials to be used in unit Compute profit and loss in sales
Communication Skills	ē.
Writing	Write a thank-you letter to guest speakers - answer questions on a worksheet for making picture frames - identify old and new Christmas decorations
Research	Discover information on the history of tools and Christmas decorations
Speaki <b>n</b> g	Relate the relevance of a field trip to the unit under study
Sequence	Tdentify products chronologically



RESOURCE PEOPLE & MATERIALS METHOD OF IMPLEMENTATION Baking cookies, pizza Making picture frames and keyboards Making keyboards Plan for making Christmas ornaments and decorations Plan for making ties, aprons, creative stitchery, picture frames Plan for making ties, aprons, creative stitchery, picture frames Making picture frames Write a report on old and new Christmas decorations Write a report on the history of tools or Christmas decorations



JNIT TITLE:

SEASONAL PROJECTS (continued)

As a result of this unit, each child will be able to:  Designing  Devise a design for unit products  Decorating  Devise a decoration for unit products	ONCEPTS		BEHAVIORAL OBJECTIVES
Designing  Devise a design for unit products  Decorating  Devise a decoration for unit products			
Decorating Devise a decoration for unit products	Art		•
	Designing		Devise a design for unit products
	Decorating	·	Devise a decoration for unit products
		Security.	
		<u> </u>	

Research

Purchasing

Producing

Prepare steps for producing, changing  $_{\mbox{\scriptsize raw}}$  materials to finished product

Estimate the cost of needed materials for unit project

Differentiate skilled, semi-skilled and unskilled jobs in unit activity Manipulate tools to produce products Construct a product by combing materials Identify raw materials used in producing a unit product Recognize the conditions needed to store and preserve raw materials needed for unit activities Identify personal feeling of accomplishment upon completion of product Differentiate personal feelings of working individually and on assembly line



# METHOD OF IMPLEMENTATION

# RESOURCE PEOPLE & MATERIALS

Making Christmas decorations
Baking cookies
Making felt decorations
Making popcorn and cranberry strings
Making macaroni decorations
Doing creative stitchery
Designing decorations

# Brainstorming

Role playing: purchasing agent

Constructing keyboards
Baking pizza, cookies
Making Christmas decorations, ties,
aprons, popcorn and cranberry strings,
felt decorations, macaroni decorations
Do creative stitchery
Paint by number
Making picture frames



UNIT TITLE: SEASONAL PROJECTS (continued)

CONCEPTS

BEHAVIORAL OBJECTIVES

As a result of this unit, each child

will be able to:

Career Awareness (Cont.)

Managing

Retailing

.

an efficient manner (to get the job done)

Predict cost of packaging materials Suggest places and prices for selling finished products

Manipulate workers and materials in

Self-Awareness

Building self-confidence

Recognizing emotions and attitudes in self

Clarification of values

Explain how you feel when you know that you have done something well

Given a situation in which you and another person are interacting, describe how you feel

Given a specific value, determine whether or not you feel the value is valid when applied to a specific situation Given a specific value, determine whether or not you think the value would be valid if your role were different

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
METHOD OF IMPLEMENTATION	
Com-	
, little control manager	
Role playing: quality control manager, foreman  Selling unit products	Salesman
Discussion of personal feelings of accomplishment after production	
Group or assembly line construction of seasonal products	

Assembly line construction



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# HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

COOKIE TYPE DECORATIONS

# II. ACTIVITY FORMAT:

A. Tools and Materials

4 cups flour
1 cup salt
1 7/8 cup water
Ornament hooks
Rolling pins
Cookie cutters
Extra flour for flouring boards
and hands

Acrylic spray
Plastic wrap
Paint
Mixing bowls
Spoons
Cookie sheets
Measuring cups

B. Procedures for this activity (with helpful hints)

Mix together: flour, salt, water. (Note: for smaller portions, use these proportions - 1/2 cup flour, 1/8 cup salt, 1/4 cup water.) Finish mixing with your hands if necessary. Knead dough on a generously floured board until it's very smooth and has a good consistency with which to work (this will become easier to determine the more you work with the dough; it is easier to knead flour into dough that is too moist than it is to knead water into dough that is too dry). Be sure to keep unused portions covered with plastic wrap. If dough becomes too sticky before you are through with it, knead more flour into it. \*\*Put ornament hooks in before baking. Roll out, cut figures with cookie cutters. Place figures on cookie sheet and bake at oven set at 275 - 300 degrees (had mothers take them home to bake). Bake about 3 hours. Never leave figures unbaked for more than 2 hours. Cool. Paint.

I. NAME OF ACTIVITY

CHRISTMAS DECORATIONS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Rulers Scissors Paper cutter

Dremel saw or coping saw

Stapler

Oak tag or cardboard rolls for rings, pencil for marking measurements, colored aluminum foil for ring covers.
Alligator or plastic bags to bag finished product. Construction paper lid for decoration package.

- B. Procedures for this activity (with helpful hints)
  - 1. a. Cut with paper cutter or other cutting instrument  $1\ 1/2$ " roll from cardboard rolls or
    - b. Measure and cut 3 1/4" by 6" rectangles from oak tag, staple into 3 1/4" by 5 1/2" circles.
  - 2. Cover rolls with aluminum foil (inside and out), staple 12 rolls into triangle of 10 with base of 2 rolls, decorate inside of or outside of rolls with minature decorations or cotton or construction paper.
  - Package
  - 4. Staple shut with construction paper top
  - 5. Label

#### I. NAME OF ACTIVITY

CREATIVE STITCHERY

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Burlap Yarn Needles

- B. Procedures for this activity (with helpful hints)
  - 1. With help of art teacher, children designed a picture on paper.
  - 2. They cut out their picture and traced it with pencil on burlap.
  - 3. Embroider with various stitches around picture. Use different colored yarns.\*Mothers taught special stitches to the children: French knot, running stitch, chain stitch, etc.
  - 4. Hem edges on machine.
  - 5. Cut dowels of wood and insert at top to hang up.
  - 6. Add breided yorn tie at top.

#### I. NAME OF ACTIVITY

TIE MAKING

# II. ACTIVITY FORMAT:

A. Tools and Materials

Tie making kit with all materials in it Sewing machines Irons Ironing Boards

B. Procedures for this activity (with helpful hints)

Follow the instructions (read and interpreted by the mother assistant), that are included in the tie kit. These kits are available at most fabric stores.

Iron the finished product. Fold and wrap.

(Kits purchased at Gwynn's Fabric Shop, Merrill Rd., Birmingham, Michigan)



. I. NAME OF ACTIVITY

MAKING AN APRON

# 11. ACTIVITY FORMAT:

A. Tools and Materials

l yard of cloth Needles
Iron

Sewing machine Thread

Ironing board



- 1. Cut large pattern out of newspaper
- 2. Have children pin pattern on cloth and cut it out
- 3. Use machine to turn under hem and to add tie at the top
- 4. Add pockets if desired
- 5. Iron the apron
- 6. Fold and wrap



#### I. NAME OF ACTIVITY

CONSTRUCTION OF KEYBOARDS (OR MITTEN TREES) (See following sheet)

# II. ACTIVITY FORMAT:

A. Tools and Materials

Wood stain
Clip clothespins
Cup hooks
White glue
Wood putty
Turpentine
Soft rags
Dowel rod
Black spray paint
Sheet of 4' x 8' plywood

Miter box and saw
Brace and bit
Hammers
Nails
9 paint brushes
Cardboard box for "spray
paint booth"
Fine and medium sandpaper
Colored enamel

B. Human Aides and Resources

Student - Macomb Community College

C. Procedures for this activity (with helpful hints)

Have plywood pre-cut to  $8" \times 10"$  size Use a miter box to cut pegs to correct length Apply stain with wide brush and wipe off with soft cloth Have plenty of turpentine!

### PEG KEY BOARDS

#### 2 brushes

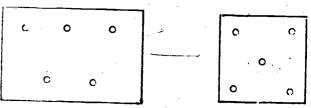
#### Boards

Place block underneath. Drill hole completely through board in five places

Glue pegs into holes with white glue. Fill area around hole with wood putty. Wipe all sawdust from board. Stain board with wood stain.

#### Pegs

(Use five pieces)
Measure 2" for each peg.
Out carefully where you have marked.
Dip pegs in stain (end you are
holding onto will be glued in
hole so does not have to be
stained).



6 brushes

PIANO KEY BOARDS

#### Boards

Wipe sawdust from board.
Discuss proper painting technique with enamel.
Spread out newspaper.
Paint board white.
Clean brushes!

# Clothespin Keys

Tie seven pins to strings. Hang inside carton Discuss techniques for spray painting. Spray pins black.

#### **Ass**embling

Mark location for keys (meanword real keyboard)
Take clothespins apart
Drill hole in one-half
Nail through hole in a ware
Re-assemble clothespin

#### 1 brush

# CULTOOK KEY BOARDS

Wipe sawdust from board.
Discuss painting technique with enamel.
Spread out newspaper.
Paint board a light color.
Paint design with small brushes and colored enamel.
Screw in cupbooks.

I. NAME OF ACTIVITY

MACARONI DECORATIONS

### II. ACTIVITY FORMAT:

A. Tools and Materials

Tag board

Macaroni

Paint

Glue

Scissors

Acrylic Spray

- B. Procedures for this activity (with helpful hints)
  - 1. Cut a Christmas shape out of tag board. \*\*
  - 2. Glue macaroni on shape.
  - 3. Paint
  - 4. Spray

\*\*Large figures could be made for door decorations

I. NAME OF ACTIVITY

PICTURE FRAMES AND PICTURES

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Wood Scissors Saws Rulers

ACT OF THE POST OF THE POST

- B. Procedures for this activity (with helpful hints)
  - 1. Measure amount of wood for a frame (perimeter)
  - 2. Cut wood into desired lengths
  - 3. Miter the corners
  - 4. Cut poster board to desired length and width
  - 5. Stain the wood
  - 6. Glue wood onto poster board
  - 7. Cut pieces of felt to form the picture
  - 8. Glue felt

(Stain the picture frame wood before glueing)

See following sheet

# HANDS ON ACTIVITY

# PICTURE FRAMES

Name_	DatePROJECT LET ACTIVITY
1.	Write the name of the students in your group
2.	Write the names of the adults that helped you
3.	The distance around a rectangle, square, or triangle is called its perimeter.
Show	2 different ways to find the perimeter of your picture frame.
	(1)
4.	How long is the piece of wood you need for your picture frame?
5.	How long is the piece of wood that was purchased?
6.	How many picture frames can we cut from this piece of wood?
7.	List the materials you used for this project
8.	What tools did you use for this project?
9.	What tool is used to cut the corners for the picture frame?
10.	What kind of saw is used with a miter box?
11.	What time did you start this activity?
12.	What time did you stop working on this activity?
13.	How much time did you spend on this activity?
14.	If you were doing this activity (making picture frames) on an assembly line, what kind of jobs would there be?

### I. NAME OF ACTIVITY

BALL ORNAMENTS:

# II. ACTIVITY FORMAT:

A. Tools and Materials

Satin balls (2 colors)

Rickrack scraps

Lace scraps

Felt scraps

Ribbon scraps

Ornament hooks

Glue

Beads

Sequins

Sequins

Cups for items

Scissors

Glue

- B. Procedures for this activity (with helpful hints)
  - 1. Organize materials for small groups
  - 2. Work at creating own design on ball



I. NAME OF ACTIVITY

FELT DECORATIONS (SANTA MOBILE)

#### II. ACTIVITY FORMAT:

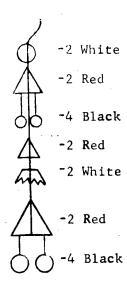
A. Tools and Materials

Black, red, white felt Red string Scissors Glue

- B. Procedures for this activity (with helpful hints)
  - Demonstrate making of "Santa"
  - 2. Cut according to diagram
  - Begin construction with one piece of each, run string from top to bottom, leaving about 2 inches of string at top. Glue string to material. Insert eyes and feet (double) at this time.
  - 4. Cover each piece with second piece.

# III. RESULTS OF THIS ACTIVITY (after implementation)

The finished item is a mobile that can decorate a tree or window for years to come. This is a good example of a homemade item. Project takes about 45 minutes.





I. NAME OF ACTIVITY

PAINT BY NUMBER

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Paint by number kit - Frank's Trims Extra brushes Acrylic spray or hair spray

- B. Procedures for this activity (with helpful hints)
  - 1. Explanation and demonstration of painting small areas and following directions for the colors.
  - 2. Spray with acrylic to prevent paint from chipping.

- -

#### HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

POPCORN AND CRANBERRY STRINGS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Popcorn String Cranberries

Needles

Popcorn poppers

B. Procedures for this activity (with helpful hints)

- 1. Pop corn
- 2. String chains of popcorn
- 3. String chains of cranberries
- 4. String chains of alternate popcorn and cranberries

STARRING THEATRE 327

#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

THEATRE

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

This unit encompasses a musical production, prop construction

and stage make-up.

#### TEACHING/LEARNING RESOURCES:

1. Reference materials:

Books: Concepts for Social Science Behavior - Grade 6

Movie: My Fair Lady

Record: My Fair Lady - theme

2. Field Trips:

See movie My Fair Lady

3. Human Resources:

Musical composer
Movie Director or Play Director
Stage Director
Singer
Dancer

4. Activities:

Rehearsal for play Stage props constructed Play performance Stage make-up



UNIT TITLE: THEATER

ONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be alic La:
Social Sciences	
Current events	Recognize and cite evidence for wars on our planet Recognize and cite evidence for the inability of certain groups of people to live in harmony with other peoples
Sociology	Examine the value of higher status in our society
Science	
Weather	Identify the unpleasant variables of weather Recognize and cite evidence for the need of variables in weather on our planet
Communication Skills	
Writing, speaking	Apply satire to daily or accepted situations or events
Music	
	Apply an original play or poem to a familiar song or melody
Art	
Set decoration	Devise an appropriate stage prop for a theatrical performance



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
·	
Do historical research on the causes of wars	
Consult social science text for value and status study	
Brainstorming on rainy day activities and plant growth	
Write a class satire	
Set play to music	
See Pilly to meste	
· ·	
Make a rocket	



#### UNIT TITLE:

#### CONCEPTS

#### BEHAVIORAL OBJECTIVES

#### Career Awareness

People and their job roles:
Production of music and sets in the theater

As a result of this unit, each child will be able to:

Apply the words of a play to existing music (musical arrangers)

Construct wooden props for the theatrical production

# Self-Awareness

Recognizing emotions and attitudes in others

Describe the sorts of behaviors (including both verbal and nonverbal) that might demonstrate the following emotions: anger, loneliness, sorrow, fear



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Set a play to music	Composer
Make wooden rocket	Carpenter
Write a play	Stage hand
Discussion of wars and disharmony on the planet	



#### I. NAME OF ACTIVITY

STAGE MAKE-UP DEMONSTRATION

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Volunteer Theater Make-up

B. Human Aides and Resources

Student from Macomb Community College

- C. Procedures for this activity (with helpful hints)
  - 1. We picked the main elf to be made up.
  - 2. Talked about importance of using proper base.
  - 3. Stage uses a grease paint, but told us how to use cosmetics.
  - 4. Demonstrator showed us how not to have make-up patchy how to make a person old or young, and highlight features.
  - 5. Must be able to see features in last row.

# III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Children were very interested and really listened. All were sorry afterwards that they did not volunteer.



I. NAME OF ACTIVITY

APPLYING OWN MAKE-UP FOR PLAY

#### II. ACTIVITY FORMAT

A. Tools and Materials

Cold cream for base All kinds of cosmetics

- B. Procedures for this activity (with helpful hints)
  - 1. Each applied own make-up as closely as they could to earlier demonstration.
  - 2. Floodlights must be used in play in order to make this effective.

# III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION):

Everyone enjoyed doing this - even the boy that spoke one line was excited about his putting on make-up. I think this really brought everyone together.



I. NAME OF ACTIVITY

MUSICAL PRODUCTION

# II. ACTIVITY FORMAT:

A. Tools and Materials

T-shirts

B. Human Aides and Resources

Singer Musical composer Play director

- C. Procedures for this activity (with helpful hints)
  - 1. Write words to songs.
  - 2. Practice singing.
  - 3. Go over movements associated with songs.
  - 4. Dress rehearsal.
  - 5. Final performance.

See following sheets for play. T-shirts may be sprayed with paint to identify groups of children in play.



NAME OF ACTIVITY

ROCKET PROP

#### II. ACTIVITY FORMAT:

Tools and Materials

Tool panel compliment 10 pieces 3/4" x 1" x 6' firing strips 50 1" nails

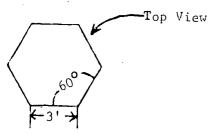
25 1½" nails

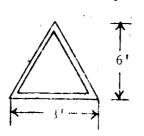
 $12" \times 4"$  corrugated cardboard Scrap \frac{1}{2}" plywood 4 1" paint brushes Tempra paint Kraft paper (30', 3' wide)

Human Aides and Resources

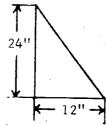
College student or carpenter

- C. Procedures for this activity (with helpful hints)
  - Construct a frame appropriate to the following sketch using 3/4" x 1" x 6' firing strips.





- 2. Brace all corners with 6'' triangles of  $\frac{1}{2}''$  plywood.
- 3. Cov the 6 sides with Kraft paper; staple this to the firth cips. One side should be left open to enter the rock. t.
- 4. Construct 3 fins out of cardboard and is ten to sides of rocket.



5. Paint appropriately using tempra paints.

MUSICAL - "At This Rate It May Soon Be Too Late"

Tune: "Hernando Hideaway"

We've just arrived from outer space, to gaze upon the human race.

We've landed here so we can see, what's happened to humanity, you see.

Your escapades have brought us here to see your sorry state, radioactivity should not be your fate.

In to our rocket ships we've jumped, we hope we're not too late, we're not too late.

We've landed here from far away. We look quite odd to you this day.

So lend an ear and don't dismay, the truth you cannot hide away, away.

Oh, we're feeling mightly blue, cause the world is in a stew.

They're rioting in Africa, Bump Bump Bump Bump Bump Bump Bump

They're starving in Span, Bump Bump Bump Bump Bump Bump

There's hurricanes in Florida, Bump Bump Bump Bump Bump Bump Bump

And Texas needs rain, Bump Bump Bump Bump Bump Bump

The whole world is festering with unhappy souls, the French hate the German, the Germans hate the Poles, Italians hate the Yugoslavs, South Africans hate the Dutch, and no one likes anybody very much, Bump Bump Bump Bump Bump Bump Bump

But we can be thankful, and tranquil, and proud for man's been endowed with a mushroom shaped cloud, and we know for certain that some lucky day, someone will set the spark off, and they will all be blown away, Bump Bump Bump Bump Bump

\*\*<del>\*\*\*</del>\*\*\*<del>\*\*\*\*\*\*\*\*\*\*</del>

(Tune: Take Me Out To The Ball Game)

It seems that their future is not too secure, at least a million conflicts they will have to endure.

With Mao in China, and Cuba's Castro too, satellites in orbit and in Asia there's flu, achoo.

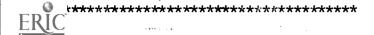
A country can develop a war, a person can develop a cold, cold war.

Take us out to the arms race, Take us out to the war.

You've bought some missiles and submarines, you'll blow the whole world to smithereens.

We will root, root, root, for the good guys, if they don't win it's a shame.

For it's one, two, third war, you're out, at the cold war game. Achoo.



Oh, what's the matter Mr. Jones, what's troubling Mr. Lee
They're too identical to have their own identity.

The Joneses, the Joneses, you've got to keep up with the Joneses.

Oh, Mr. Jones just bought a car, he's happy as can be. And now guess who just bought a car, his neighbor Mr. Lee.

The Joneses, the Joneses, you've got to keep up with the Joneses.

They're stuck like everybody else in their society. They're stuck with each other, stuck with each other, ca ca ca you see.

\*\*\*\*\*\*\*\*\*\*\*\*\*

Click, click, I'm a wheel, Click, click I'm a wheel. Click, round and round I'm going, click precision always showing.

A gear is what I am, I do the work of man. A gear is what I am, I do the work of man.

I'm just a little lever, and I may not be so clever, but I do the country's work

Work piston work. Work piston work. Don't stop or jerk. Don't stop or jerk.

Piston work, piston work, piston work WORK.

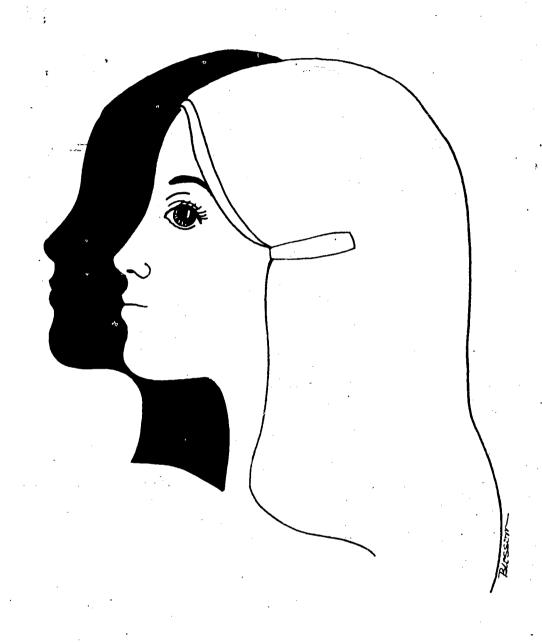
\*\*\*\*\*\*\*\*\*\*\*\*\*

So go home to the Joneses, the Goldbergs, and the Browns, let them know what it's all about

If you're feeling dejected go but and make it over, hurry up, hurry up you must go That's the answer, That's the inswer, try to make up a new set of rules.

- So go home to the Joneses, the Goldbergs, and the Browns, let them know what it's all about.

THE END



UNDERSTANDING ONE'S SELF



#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

#### INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

UNDERSTANDING ONE'S SELF

GRADE LEVEL:

GENERAL OVERVIEW: A unit developing self-awareness of the students' roles

and status in life.

#### TEACHING/LEARNING RESOURCES:

#### 1. Reference materials:

Books:

Concepts in Social Science - Unit 3

Film-

strip &

Cassette: Who Am I?

#### 2. Human Resources:

Mother helpers E.M.U. student

Junior High Industrial Art students

#### Activities:

Interviewing on jobs Make wood silhouettes UNIT TITLE: UNDERSTANDING ONE'S SELE

	and the second s
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	\$
Sociology	Identify the different roles he/she has at home/school and community Identify the groups he/she belongs to and the common goal of each group Identify the people that he/she intermingles with in their lives Classify the relationship with these people as primary or secondary
Communication Skills Writing	Organize information about himself into subject areas and use this information in paragraphs Given a question, answer in writing and give information about himself
•	

#### METHOD OF IMPLEMENTATION "

# RESOURCE PEOPLE & MATERIALS

I am a \_\_\_\_\_ - List 20 or more roles they are (daughter, wife, aunt, baker)

Make a chart classifying the groups I belong to and the common goal of the group and ages of members

Primary and Secondary Circles - draw three circles with ME (their name) in the center - on the lines place people's names according to how you feel they relate to you

Concepts of Social Science - Unit 3

"Who Am I?" - write an autobiography about yourself. Sign name on back. Draw a picture to go with it of yourself. Have a contest with class to see who can identify his classmates.

"All About Me" worksheet





UNIT TITLE: UNDERSTANDING ONE'S SELF (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Career Awareness	
Interviewing	Describe the jobs of the people around him
Reasons why people work	
Social Psychological	Given a list of jobs, justify his preference for a specific choice
	·
Self-Awareness	•
Facilitating personalized planning and decision-making	Give an example of how a person's knowledge of his skills and interests can influence his planning for the future Give an example of how a person's awareness of his values and attitudes can influence his planning for the future
Identification of personal values	Identify four people whom you respect highly and identify what characteristic(s) those people have which makes you respect them Identify three events in your life that have been particularly meaningful and determine what it was about those events that made them meaningful
Recognizing emotions and atti- tudes in self	Given a situation in which you and another person are interacting, describe how you feel



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Family Work Trees:	
a) student will interview parents on all	
the jobs they have held during their	
<ul><li>lifetime</li><li>b) student will interview parents,</li></ul>	
neighbors, relatives, friends, and	
write down one job from each	
Do a restant on the time of inhance and	
Do a poster on the type of jobs you would like and tell why you would feel suited	
for that job	·
Justification of job preference	Cut damag agumaglam
Justification of Job preference	Guidance counselor Personnel worker
No. 1	
	•
	•
Identification of primary and secondary	
sociological groups	
Primary and secondary sociological groups	A second
	The state of the s



#### I. NAME OF ACTIVITY

WOOD-WALL HANGING SILHOUETTES

#### II. ACTIVITY FORMAT:

A. Tools and Materials

1 ft. sq. plywood (1/4")
1 ft. sq. paper
pencil
shellac
paint brush

filmstrip projector camera film and flash cubes paste wall hanger

B. Human Aides and Resources

Mother helper to trace silhouettes Industrial Arts Student - E.M.U. to help with jigsaw

- C. Procedures for this activity (with helpful hints)
  - Using filmstrip projector, shine light and trace silhouette of head - cut it out
  - 2. Outline paper silhouette onto plywood
  - 3. Cut out, with jigsaw, head on plywood
  - 4. Shellac on side of wood silhouette
  - 5. Take picture of student
  - 6. Paste picture of student onto wood silhouette
  - 7. Send home wood silhouette and make a pamphlet of all paper and pencil activities

#### III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

With pamphlet and wood silhouette, students can see themselves - also take it home to show and discuss with parents.

#### PERSONAL AWARENESS

#### ACTIVITIES

Fact Find for Career Development

We have seen that plants produce many job opportunities. Pretend you are ready to enter the working world. Where do you think you might do best? Find out some things about yourself by completing the following:

#### I LIKE TO

VERY LITTLE SOMEWHAT VERY MUCH

use my hands to make things be patient and accurate work and cooperate with others take orders from others work with farm or other animals work outdoors be in a store be prompt and punctual stay indoors be in clean surroundings be in noisy places move around use my physical strength have my own ideas make plans and organize activities work by myself read and study express myself in writing think rapidly work with numbers be alert and ready for action make decisions by myself assume responsibility meet people sell things work with groups of children express ideas through art manage money care for someone ill do housework plan meals

### UNDERLINE THE WORDS WHICH DESCRIBE YOU BEST:

CASUAL HAPPY WORRIED AFRAID **PLEASANT** GOOD NATURED TALKATIVE ABLE **NERVOUS** FRIENDLY UNCERTAIN MATURE CONFIDENT LAZY INTENSE **SERIOUS** DEPENDABLE UPSET NAIVE LONELY TIRED ENTHUSIASTIC HONEST OUIET RESOURCEFUL **CARELESS** FORGETFUL INDEPENDENT CONSCIENTIOUS **AMBITIOUS** 



#### WHEN I AM WITH A GROUP, I

RARELY SOMETIMES USUALLY

introduce myself to strangers
volunteer help if needed
assume leadership
follow suggestions of others
cheerfully without complaining
participate in discussion
allow the other fellow to express
his point of view
try to follow the rules of the group
criticize others' suggestions
talk when others are talking
insist on being the "center of attention"
show a willingness to try new ways of
doing things
get asked to do an important job

#### ABOUT MY PERSONAL APPEARANCE

NOT VERY OFTEN USUALLY ALWAYS

- I keep myself clean
- I keep my nails trimmed and clean
- I keep my hair neat and clean
- I brush my teeth after eating
- I stand and sit erect
- My clothing is neat and clean
- I dress appropriately for each occasion

#### ABOUT MY FEELINGS AND BEHAVIOR

- I show good sportsmanship
- I gossip
- I participate
- I cooperate with the school
- I respect school and other people's property
- I am safety minded
- I accept responsibilities cheerfully
- I think positively
- I like to attract attention
- I like to tackle difficult problems
- I try to make new friends
- I prefer to associate with just a few close friends
- I prefer to be alone
- I consider the feelings of others
- I make remarks that are not true about others



WRITE A STATEMENT WHICH DESCRIBES THE KIND OF PERSON YOU THINK YOU ARE AND A STATEMENT EXPLAINING THE KIND OF PERSON. ON WOULD LIKE TO BE

WHAT I AM LIKE

WHAT I WOULD LIKE TO BE LIKE

HAVE YOUR MOTHER, FATHER, OR SOMEONE OLDER THO IS CLOSE TO YOU, WRITE A STATEMENT DESCRIBING WHAT HE OR SHE THINKS YOU ARE LIKE. ON THE OPEOSITE SIDE HAVE YOUR BEST FRIEND WRITE A FEW SENTENCES DERECTIONS WHAT HE OR SHE THINKS YOU ARE LIKE.

MOTHER, FATHER

FRIEND

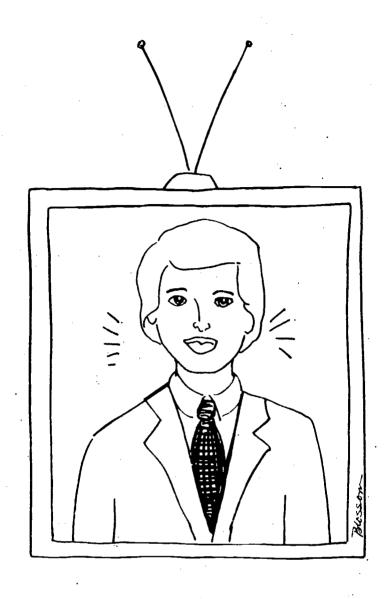
THINKING ABOUT MY FUTURE. PUT A CHECK IN THE YES OR NO COLUMN

YES

NO

I expect to finish high school
I will go to work without any more schooling
I will go to a business or trade school
I will go to college for a while
I will graduate from college
I talk about my future with my parents
I talk about my interests with people
I know what schooling is required in order to do the kind of work I would like to do
I know what workers do in the field in which
I am interested
Other plans





# VISUAL COMMUNICATION

#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT

TITLE:

VISUAL COMMUNICATION

GRADE LEVEL:

6

GENERAL OVERVIEW:

This unit encompasses developing plays with dialogue, examining careers in the communications field, what goes on at a T.V. studio and enables the students to present their plays at a T.V. station.

# TEACHING/LEARNING RESOURCES:

#### 1. Reference materials:

Silent

Movies:

Laurel and Hardy Films Phantom of the Opera

The Lost World Nosferatu

King

Comic:

Popeye and Communications and Media Careers

Books:

Action Camera

#### 2. Field Trips:

Macomb County Community College T.V. Station

#### 3. Human Resources:

Classroom students Community College T.V. personnel Radio and T.V. announcer

#### 4. Activities:

Role playing and acting Constructing scenery, props, etc. Script writing Presentation of plays at school and/or a T.V. studio



UNIT TITLE: VISUAL COMMUNICATION

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	
History	Present historical overview of the silent film era, exposure to artists from another time and appreciation of film beauty
Sociology	Identify the values of an era as reflected in a movie's theme, points stressed, portrayal of characters, etc.
Communication Skills	
Main Idea	Relate a story line
	Pantonime a short play
•	
Career Awareness	
People and their job roles	Discover jobs available
Personnel	Identify skills and education required for five various careers related to visual communication
Self-Awareness	
Facilitating personalized planning and decision-making	Give an example of how a person's knowledge of his skills and interests can influence his planning for the future



METHOD OF IMPLEMENTATION	. RESOURCE PEOPLE & MATERIALS
	·
Showing of silent films - mimeograph material on films giving actors, etc.	Silent films
Discussion of these points after viewing films	
Students talk and write about the plot	
Students work to develop plays	
King Comics: Popeye and Communications and Media Careers	
Resource person from WWJ-TV	Radio and T.V. announcer
Students wrote plays, chose roles, selected costumes, made scenery, and performed their productions	M.C.C.C. TV Station
Discovering jobs, their required skills, and education	,



I. NAME OF ACTIVITY

ROLE-PLAYING

#### II. ACTIVITY FORMAT:

A. Tools and Materials

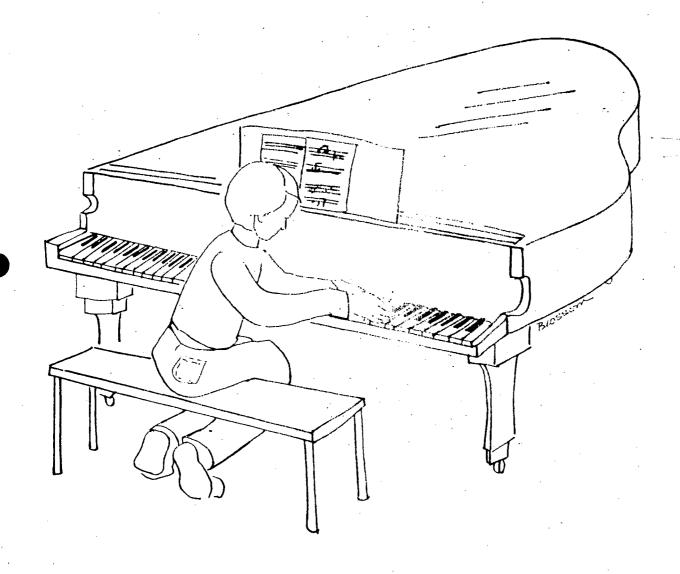
scissors
yardsticks
paper (large roll type)
costumes
props

B. Human Aides and Resources

Community College T.V. station personnel

- C. Procedures for this activity (with helpful hints)
  - 1. Students picked an idea for a play
  - 2. They selected a chairman and secretary for each group
  - 3. They figured out plot, characters, costumes, and scenery for play
  - 4. Rehearsals were held
  - We talked about the need for a director, etc. after visit from radio and T.V. announcer; also, the need for play continuity
  - We selected the best plays for presentation at M.C.C.C.
     T.V. station

- A. The students enjoyed their visit; they learned the mechanics of running a T.V. studio.
- B. They were excited to see themselves on the T.V. tape replay.



WRITING MUSIC

#### SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

# INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

WRITING MUSIC

GRADE LEVEL:

5-6

GENERAL OVERVIEW:

A cooperative unit between the classroom teacher and the special teachers in teaching the children to compose their own music and lyrics.

### TEACHING/LEARNING RESOURCES:

#### 1. Reference Materials:

Books:

Tall Tale America
(Many tall tale books on American folk heroes)

Filmstrip and Record Sets:
Songs of the Revolution
Songs of the Old South
Songs of the Civil War
Songs of the Railroad

2. <u>Human Resources</u>:

Music teacher Speech correctionists

3. Activities Listed:

Composing Folk Songs Writing Lyric: For Folk Songs



UNIT TITLE:

WRITING MUSIC

#### CONCEPTS

#### BEHAVIORAL OBJECTIVES

#### Social Sciences

American History

As a result of this unit, each child will be able to:

Of a list of 10 historical figures in which only 5 are American folk heroes, identify the 5 American folk heroes

Of a list of 10 historical events in which only 5 are American historical events, identify the 5 American historical events

Describe the character of one American folk hero

Infer the importance of one American historical event

#### Communication Skills

Reading Listening

Writing

Story forms

Relate stories and songs presented in class in preparing his own story and song

Compose an original tall tale

Of a list of four kinds of tales (epic, fairy, tall and folk) choose the tall tale as the one which exaggerates human achievement

#### METHOD OF IMPLEMENTATION

RESOURCE PEOPLE & MATERIALS

Do research on historical tolk heroes

Do research on historical events and/or heroes

Writing lyrics for folk songs

UNIT TIFLE:

WRITING MUSIC (continued)	· · · · · · · · · · · · · · · · · · ·
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Music	
Listening	Recognize a folk song when heard
Composing	Compose a musical stanza
Arranging	Apply the lyrics to music
Career Awaren <b>es</b> s	
People and their job roles:	
Research	Gather data on American history or American historical figures
P <b>ro</b> duc <b>i</b> ng	Use data gathered on American history or American historical events in composing a song
Self-Awareness	
Analysis of interests	Identify two activities which you would to engage in but you are not presently involved in Given a list of activities you like to do and a list of activities you voluntarily spend time on; analyze and discuss the degree to which the lists are in agreement with one another
Awareness of others	Give a specific example of something you learned about someone from observing that person's activities

Appraisal of academic skills

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Given information on how well you do in various subjects, identify those general skills which are involved in the subjects you do best

ETHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIA
Composing music for folk songs	
	·
· ·	
Writing lyrics for folk songs Composing music for folk song Setting lyrics to music	Historian
Listening to folk songs	Musician Conductor
Listening, reading, writing activities	•



I. NAME OF ACTIVITY

WRITING LYRICS FOR A FOLK SONG

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Paper Pencil

B. Human Aides and Resources

Speech correctionist Music teacher

C. Procedures for this activity (with helpful hints)

Have pupils write, in poem form (to be set to music), an original folk tale about an American hero or event (factual or fictitious) after listening to and/or reading about them in various books, and listening to and watching filmstrip and record set on American historical folk songs.



I. NAME OF ACTIVITY

COMPOSING FOLK SONGS

#### II. ACTIVITY FORMAT:

A. Tools and Materials

Staff paper Pencils

B. Human Aides and Resources

Speech correctionist Music teacher

- C. Procedures for this activity (with helpful hints)
  - 1. Students are to decide upon a time signature
  - 2. They will write a stanza of music
  - 3. Incorporate lyrics from previous activity and music written from this activity

