ED 118 854	CE 006 397
TITLE	Career Education Integrated Teaching Unit Handbook. Career/Self-Awareness, Grades 3 and 4.
INSTITUTION PUB DATE NOTE	Royal Oak City School District, Mich. 75 492p.; Second Edition; Portions of some pages are of
	marginal legibility; For other grade levels, see CE 006 396-398; For the Guide for Implementation, see CE 006 753
EDRS PRICE DESCRIPTORS	MF-\$1.00 HC-\$26.11 Plus Postage *Career Awareness; Career Education; *Curriculum Guides; *Elementary Education; Grade 3; Grade 4; Instructional Materials; Integrated Activities; *Integrated Curriculum; *Learning Activities; Self
IDENTIFIERS	Concept; Unit Plan Learning Experiences in Technology Project; *Project LET

ABSTRACT

The Integrated Teaching Units for grades three and four 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 guide. 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 resource " (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 with some of the units. (Author/MS)

* materials not available from other sources. ERIC makes every effort *
* to obtain the best copy available. Nevertheless, items of marginal *

* reproducibility are often encountered and this affects the quality

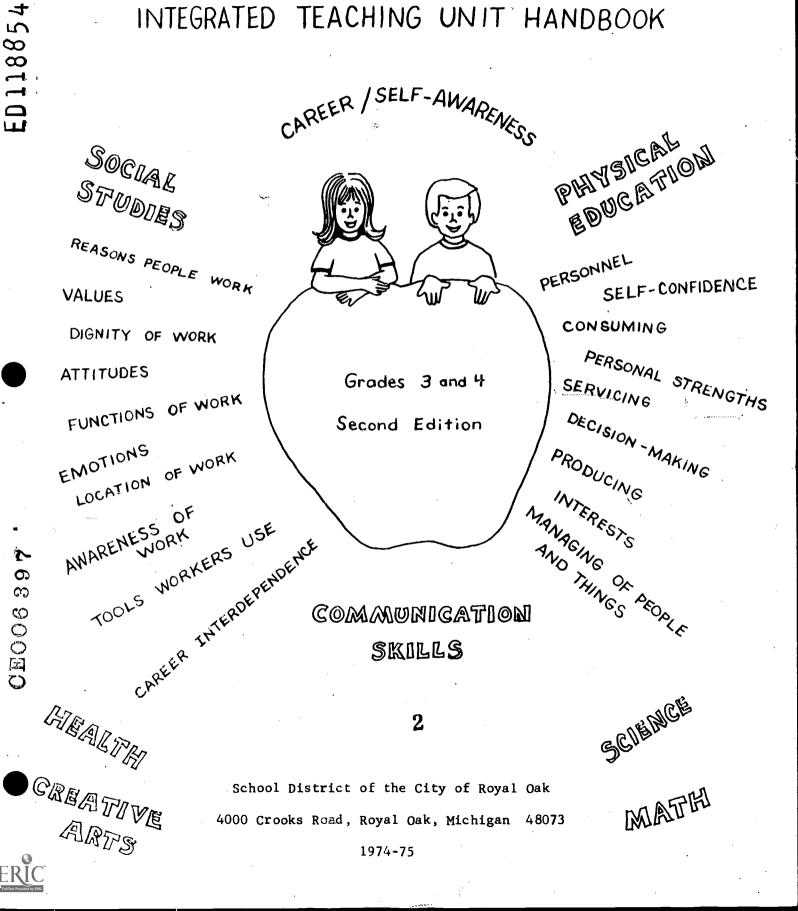
* of the microfiche and hardcopy reproductions ERIC makes available

* via the ERIC Document Reproduction Service (EDRS). EDRS is not *
* responsible for the quality of the original document. Reproductions *
* supplied by EDRS are the best that can be made from the original. *

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRO-DUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGIN-ATING IT POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRE-SENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

CAREER EDUCATION STATED DO NOT SENT OFFICIAL N EDUCATION POST



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 <u>Integrated Teaching Unit</u>. 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 classroom 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.

ii

		Page Number
ANIMAL LIFE - VI	ERTEBRATES	2
Activities:	Puppetry (Sawdust Puppets)	10
	Hatching Chicken Eggs	12
	Animal Puzzles	13
· .	Paper Mache Animals	14
	Puppetry (Sock)	15
ANIMAL LIFE - VI	ERTEBRATES: BIRDS	17
Activities:	Bird House	22
	Pine Cone Bird Feeder	23
CANDY INDUSTRY		25
Activities:	Set Up A Candy Factory	30
	Making Rock Candy	32
	Cake Decorators - Learning Sequences	33
	Creative Writing - Sentence Structured Language Stories	34
	Candy Survey - Recognizing Consumer Demands	36
	Large Group Candy Manufacturing and Packaging	37
CLOTHING INDUST	RY	39
Activities:	Making a Pattern and Bed Pillow	44
	Making a Vest	45
MAN'S USE OF RE	SOURCES	47
Activities:	Tie Dyeing	55
	Yarn Holders - Shaped Like An Apple	56
	Building a Weaving Loom	57
	Meat Tray Wall Plaques	58
	Wall Hangings	59
GROCERY STORE (GENERAL STORE, TRADING POST)	61
Activities:		66
	Bake Bread and Make Butter	67
FAMILIES EARN A	ND SPEND	69
Activities:	Caramel Apple Sale	77
	Cupcakes	78
	School Bus	79
2 x	Assembly Line Chair Wash	80
	Christmas Ornament (Mouse)	81
	Making, Packaging and Sale of Candles	82
	Popcorn Factory	83



4

Full Text Provided by ERIC

		Page Number
COMMUNICATIONS		85
Activities:	Making a Newspaper	97
	Build Rubber Stamps	100
	Prints From Plastic	101
	Want Ads For Pony Express Rider	102
	Ink Making	103
	Scrolls - Quill Pens	104
	Making Wax and Clay Tablets	105
	Block Printing	106
	Shadow Puppets	116
	Sending Morse Code	117
	Two Room Hook-Up Telegraph	118
	Writing With Pictures	120
	Making Up a Code System	121
	Making Flags Used to Send Messages at Sea	122
	Telephone Activities - Answering Service	123
USING MAPS AND	GLOBES	125
Activities:	"Pot of Gold"	133
	Enlarging Maps and Objects	'134
	Globes	135
	Map Puzzles	136
ŕ	Map Making Using Different Media	137
	Relief Map of United States	138
	Profile Map Showing Businesses on Eleven Mile Road	139
	Within Longfellow School District Using 3 Inches For Each Block	
	Product Map of Michigan	140
PREHISTORIC MAN		142
	Shelter Construction	147
Activities:	Tool Making	148
	Communication	140
. •	An Ancient Calendar	150
GOVERNMENT: DIS	COVERY & EXPLORATION OF NORTH AND SOUTH AMERICA	152
Activities:	Making Aztec Prints	162
COLONIAL AMERIC	Δ	166
Activities:	Dipping Candles	179
	Making Candles - Molded	180
	A Day at Miller School - Greenfield Village	181
	Colonial Hats	182
	Preparing Applesauce	183
	Making Vegetable Soup	184
	Colonial Cooking - Williamsburg Ginger Cakes	185



iv

5

a.

Page Number

COLONIAL AMERICA (Cont.)	COL	LONIAL	AMERICA	(Cont.))
--------------------------	-----	--------	---------	---------	---

Activities:	Making Molasses Cake	186
	Popcorn	187
	Making Corn Muffins (Southern)	188
	Making Corn Bread	189
	Making Butter	190
	Hornbooks	191
	Weaving Baskets	193
	Loom Making	194
		194
•	Trading Day	
	Mural - Restored Town	197
·	Making Paper From Pulp	198
	Recycling Paper By Hand	199
i i	Stilts	201
•	Sled - Early American	202
	Spool Knitting	203
	Bootjacks	204
	Hand Soap	205
	Dolls	206
20	Weaving Baskets	207
GOVERNMENT: EVO	LUTION OF THE AMERICAN FLAG	209
Activities:	Making Books on Evolution of Flag	216
	Make a Diorama of Phase of Michigan's Growth	217
GOVERNMENT: LEVI	ELS OF GOVERNMENT	219
Activities:	Visit to Huntington Woods City Hall	224
	Group Visit to Royal Oak City Hall 🦾	22 6
	Visit to Oakland County Treasurer's Office	228
	Huron-Clinton Metropolitan Authority -	2 3 0
	Detroit Headquarters	
GOVERNMENT: ELE	CTIONS	2 32
		242
ROYAL OAK	· · ·	243
Activities:	Jigsaw Puzzle of Royal Oak	250
	Globes	. 251
	School Maps	252
	Map Puzzles	253
	Map Making Using Different Media	254
	Relief Map of United States	255
	Profile Map Showing Businesses on Eleven Mile Road	256
	Within Longfellow School District Using 3 Inches	
	For Each Block	257
	Product Map of Michigan	25 7



6

v

		Page Number
MICHIGAN		259
Activities:	Vehicle Models (Putting Together)	264
	Making Michigan Relief Map	265
	Making Cherry Tarts	266
	Making Cherry larts	200
HOLIDAYS - THAN	KSGIVING	268
Activities:	Making Costumes	274
	Making Butter	275
	Pumpkin Pie	276
	Thanksgiving Dinner and Indian Dance	278
-	Candle Dipping	279
	condic Dipping	
HOLIDAYS AND CU	STOMS - CHRISTMAS	281
Activities:	Christmas Decoration Using Tag Paper,Foil and Styrofoam	289
	Construction of Keyboards (Or Mitten Trees)	· 290
	Tie Making	293
	Making an Apron	294
	Creative Stitchery	295
	Picture Frames and Pictures	296
		298
	Holiday Cookie Making	299
	Hcliday Dinner Menu	300
	Wooden Christmas Tree Ornaments	
	Plaster of Paris Pins	301
	Holiday Pencils	302
	Yarn Dolls	303
	Felt Christmas Tree Ornaments	304
	Egg Carton Waste Basket	305
	Styrofoam Tree Ornaments	306
	Santa Heads - Ornament	307
ELECTRICITY AND	MAGNETISM	309
Activities:	Electric Copper Plating	· 316
	Making a Magnetic Boat	317
	Eleven-Cent Battery	318
· •	Creating Compass Needles	319
	Destroying a Magnet With Heat	320
	Electrolysis	321
	•	322
	Earth Conducts Electricity Making an Electric Light Bulb	323
		325
HISTORY OF MEDI	CINE	
Activities:	Vocabulary Tree	336
HUMAN BIOLOGY	· · ·	339
Activities:	Types of Teeth	357
ALLIVILLO;	Paraffin Models of Teeth	358
	FALALLIN MOUCHS OF ICCUN	

vi



Page Number

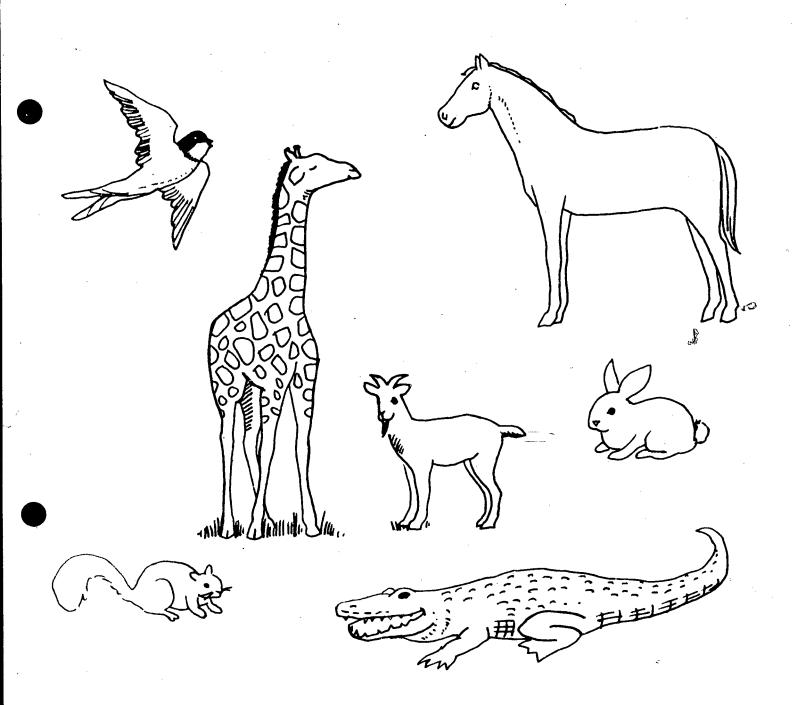
Activities:	Teeth Model	359
	Teeth - Digestion Experiment	360
	Experiment - Decaying Process of Teeth	36
	Acid's Effect on Teeth	36:
	Experiment - How Acids Dissolve Calcium From Sterilized, Extracted Teeth	363
Adden of an effective strength of the second	Using Disclosing Tablets to Check on Proper, Careful Tooth Brushing	364
	Toothpaste	36.
	Demonstrate: "Toothbrush Foods" VS "Sticky Foods"	36
	Sweetless Party	36
· · ·	Occupation Mural for Dental Health	37
	Vocabulary Tree	37
	Constructing Mazes	37
	Maze and Tower of Hanoi	37
	Doughnuts - Small Business	37
MACHINES		38
Activities:	Six Experiments With Simple and Complex Machines	38
	Inclined Plane and Wheel and Axle	38
ъ	Geats-	38
	Levers	38
-	Letter Holder	39
	Abacus	39
	Pencil Holder	39
	Key Chain	39
	Noodle Knacher	39
	Line Production - Kite Making	39
	Bookm arks	39
	Making Notepaper For Mothers	39
	Building of Model Trucks	39
	Truck Mass Production	. 39
	Making Holes Through a Block of Wood	40
	Screws	40
	Tool Box and Tools	40
	Elevators - Wheel and Axle	40
	Geometric Designs - String Art	40
PLANTS AND TREE	S	41
Activities:	Leaf Booklets	4]
	Constructing Yo-Yo's From Wood	41
	Handy Dandy Jar Holders	42
	Planting Herb or Spice Garden	42
	Plant Propagation	42
	Tree Planter	42
	Planter Boxes	42
· .	Artificial Flowers - Roses	42
· .	vii	
C *	8	

Page Number

PLANTS AND TREES	(Cont.)	
Activities:	Artificial Flowers	430
	Dried Flower Arrangements	431
	Cornhusk Dolls	432
WEATHER		434
Activities:	Pinwheel	440
	Rain Gauge	441
	Dog Barometer	442
	Construction of Wind Sock	443
	Weather Vane	444
	Choral Reading	446
TRANSPORTATION -	AIR TRANSPORTATION - (AVIATION)	449
Activities:	Constructing Glider	457
	Constructing Paper Airplanes	459
	Constructing Weather Vane	460
	Construction of Wind Sock	462
	Simulated Flight to Chicago	463
	Construct Paper Airplanes to Learn Basics of Flight, Lift	464
	Construct Gliders	465
·	Insignias of Airlines	. 466
AUTOMOBILE TRANS	PORTATION	468
Activities:	Carve Soap Models	473
	Automobile Mass Production	474
RAIL TRANSPORTAT	ION	476
Activities	Freight Train Mural	481



viii



VERTEBRATES

ERIC

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: ANIMAL LIFE - VERTEBRATES

3

GRADE LEVEL:

2

GENERAL OVERVIEW:

Animals survive in environments to which their characteristics are best suited. Every animal group has characteristic behavior patterns. Man is affected by animals. Animals' failure to adapt to environmental changes means extinction.

TEACHING/LEARNING RESOURCES:

1. <u>Reference materials</u>:

Books:

About Animals - Childcraft <u>Animals</u> - Arendel, Jocelyn <u>When Animals are Babies</u> - Schwartz, Charles <u>Reptiles and Amphibians</u> - Mathewson <u>The Birds</u> - Peterson <u>Insects</u> - Baranowski <u>Exploring the Animal Kingdom</u> - Selsam <u>World of Nature</u> ---Walt Disney Studio <u>The Zoo in Pictures</u> - Sejet <u>Good Time Animal Book</u> - Watts <u>Animals that Help Us</u> - Fenton <u>All About Fish - Burger</u>

Films:

Animal Communities and Groups Animals Protect Themselves Animals With Backbones Camouflage in Nature Through Form and Color Matching Camouflage in Nature Through Pattern Matching Development of the Chick Embryo Instincts in Animals

Filmstrips:

Realia:

What is a Vertebrate? Discovering Amphibians Animals Fit Themselves to Their Surroundings Some Water Animals We Protect Animals Eggs that Produce Chicks

Charts - Animals Dessification of the animal kingdom Chiefe ombryos Flat Pictures - Comals Without Backbones Actuals That Help Us



2. Field Trips:

Seven Ponds Nature Center (Dryden, Michigan) Pet Shop and Veterinarian Clinic Merri Barr Pet Shop Animal Shelter: 12 Mile Dog Pound Holden Museum of Living Reptiles Upland Hills Farm Natural History Museum in Ann Arbor Cranbrook Institute

3. Human Resources:

Parents Guides at Seven Ponds Nature Center Pet Shop owners Veterinarians Director of Humane Society

4. Activities:

Paper-mache Animals Animal Puppets and Puppet Play - sawdust and sock Animal Puzzles Hatching Chicken Eggs Oral and Written Reports Role Playing -Animal charades Choral reading and role playing using poetry Film strip made by students Poetry, booklets about animals Examine live animals and list similarities and differences

4

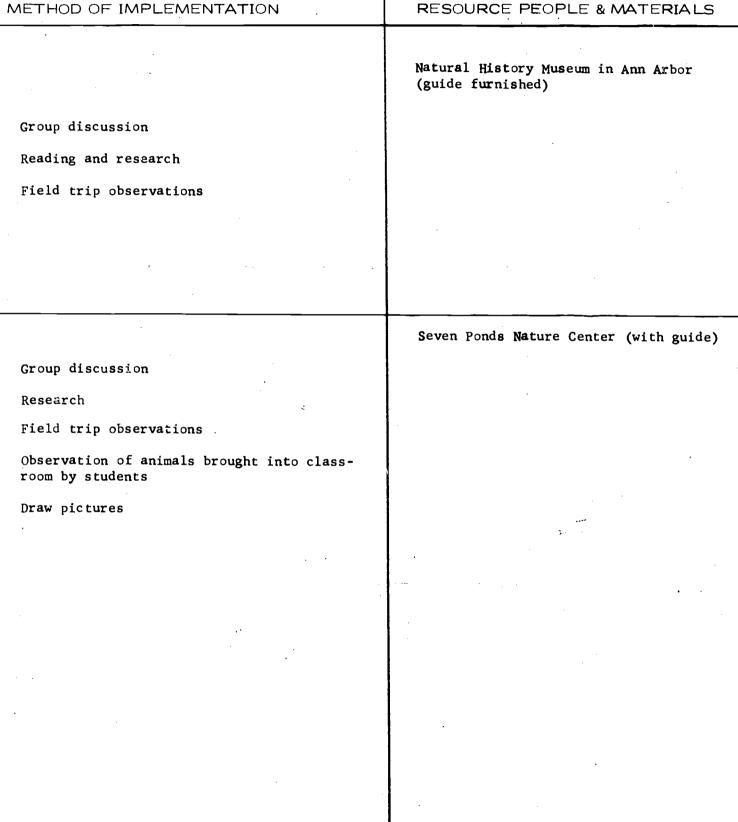
UNIT TITLE: ANIMAL LIFE - VERTEBRATES

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	
Group behavior	Participate in group and identify at least two ways people behave in a group
Man's dependence on animals	List at least three ways man depends upon animals
Location of animal homes	Designate what animals do to adapt to environment relative to food, shelter, physical changes
Adaptation of animals to environ- mental changes	Give examples of how failure to adapt can spell extinction
	•
Science	
Animal behavior patterns	Identify the common animal groups and give examples of their behavior
Affect of animals on other animals including man	Participate in group discussion and give two examples of the interdependence of man and animals
Chick development	Make a drawing showing development of chicks
Characteristics and classification of animals	Identify four physical characteristics of animals

ERIC

.1.3

: :----



UNIT TITLE: <u>ANIMAL LIFE - VERTEBRATES</u> (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
Communication Skills	As a result of this unit, each child will be able to:
Written reports Creative writing Thank you notes Recognition of words	Construct a written report Explain a story he or she read (either verbally or in writing). Dictate an ending to an unfinished animal story.
Reading for information Reading for pleasure Oral reports Group discussion	Organize material and present it as an oral report to a group
Pantomine Play production Spelling Role playing	Take a part in role playing
Music Animal Songs	Sing a song about animals

E

METHOD OF IMPLEMENTATION	FREINSTRATION FOR THE REPORT OF THE
Writing reports #	Learning Annuals Theorem
Poetry prose	Vececlastan
Thank you notes	DLUBCTOR IT BUILDING SOUTHERS
Pantomime animals for classmates to guess identity	Zon holpor totalouse mutting is summin
· · · ·	
Giving oral reports	
Small group discussions	
Pulling on a puppet show	
Describe a live animal	
·	
an ann an	t
	Nonic teacher
Tape Tong's children make up	Racordo
	Tape recurdar

16

;

ERIC

UNIT TILE:

ANIMAL I L'H. - VERTEPRATER (of Lound)

CONCEPTS	BEHAVIORAL OBJECTIVES
Art	As a result of this unit, each child will be able to:
Puppetry	Construct an animal or puppet
Paper mache techniques	
Illustrations	
	· · · · · · · · · · · · · · · · · · ·
·	
Career/Self-Awareness	
Managing	Identify ten occupations created <u>because</u> of animals
Producing	Classify the animal occupations into the three areas of managing, producing, and service
Hobbies with animals as career preparation	List five household pets
Awareness of other people's activities	Give a specific example of something they learned about a person from observing the person's activities

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
· · · · · · · · · · · · · · · · · · ·	
· · · ·	
· · · · ·	
aking puppets	
aking three dimensional animalspaper mache	
riting reports	
	,
uest speakers:	
anaging - zoo	Zoo director or delegate
roducing - butcher	
ervice - veterinarian	Pearce Veterinary Clinic
ohbies	Children or parents who raise, train, or show animals
ny of the field trips listed	Bee keeper
•	

· 9

ERIC Full Text Provided by ERIC

-

18

• •

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

PUPPETRY - (SAWDUST PUPPETS)

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

Sawdust Paint Wheat paste Sewing materials 3 x 5 cards

B. Human Aides and Resources

Parent helpers

C. Procedures for this activity (with helpful hints)

- 1. Mix sawdust and wheat paste on a one to one basis with water
- 2. Roll 3 x 5 card into a tube and staple
- 3. Model puppet head on tube in upright position
- 4. Dry for 2 3 days
- 5. Paint and decorate
- 6. Make a costume by tracing pattern and sewing

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>

ANIMAL LIFE - VERTEBRATES

· · ·

.





PLACE ON FOLD OF FABRIC

CUT TWO

PAIL OF ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

HATCHING CHICKEN EGGS

- II. ACTIVITY FORMAT
 - A. Tools and Materials

Incubator Fertilized eggs Cardboard box

Light bulb Aluminum foil

- B. Procedures for this activity (with helpful hints)
 - 1.a. Buy eggs from Holtz Apples and Egg Farm in Romeo
 - b. Mark eggs with an X on one side
 - c. Keep incubator at 101 degrees F.

 - d. Turn eggs over 3 5 times daily e. Eggs take from 19 21 days to hatch
 - 2.a. Line a cardboard box with aluminum foil
 - b. Make a hole in side of box which is 1/2 diameter of egg
 - c. Put the light bulb inside box and darken the room
 - d. Placing egg halfway in hole will allow light to shine through egg showing embryo outline
 - e. Do this frequently to watch development

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



ANIMAL LIFE - VERTEBRATES

HANDS ON ACTIVITY (CTUDENT PERFORMED)

I. NAME OF ACTIVITY

ANIMAL PUZZIES

II. ACTIVITY FORMAT

. . .

A. Tools and Materials

Magazine Cardboard Glue Mod Podge Paint Brush Scissors

B. Procedures for this Activity (with helpful hints)

- 1. Find large animal picture in magazine or picture of self
- 2. Glue picture to cardboard
 - 3. Cover with Mod Podge (using paint brush)
 - 4. After drying (10 minutes) cut into pieces

22

5. Store in envelopes with name of animal

III. RESULT OF THIS ACTIVITY (AFTER IMPLEMENTATION)

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

14

PAPER MACHE ANIMAIS

II. ACTIVITY FORMAT

A. Tools and Materials

Chicken wire	Wheat paste	Buttons
Wire snips	Paint	Shellac
Large staples	Yarn	Pipe elcaners -
Newspaper strips (3" x 12")	Cotton	

B. Human Aides and Resources

Older student paired with each third grader.

- C. Procedures for this activity (with helpful hints)
 - 1. Form shape of animal with wire
 - 2. Prepare wheat paste
 - 3. Cover figure 2 coats
 - 4. Paint animal shellac
 - 5. Add features

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

ANIMAL LIFE - VERTEBRATES

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

PUPPETRY (SOCK)

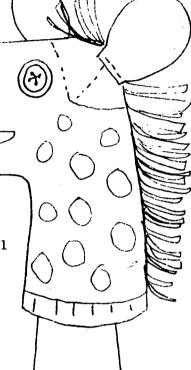
- II. ACTIVITY FORMAT:
 - A. Tools and Materials

socks yarn felt or material scraps glue

- B. Procedures for this activity (with helpful hints)
 - Make faces on sock by glueing on material scraps

Í

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



15



() I I I I I I Welling (. "II mu 11111 1/11/16 +n)|| num liller 1111 **////** 11.110 Hum 1///// hinte Lat 1 1111111 1111 Blitis VERTEBRATES -BIRDS



SCHOOL DISTRICT ... THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: ANIMAL LIFE - VERTEBRATES: BIRDS

GRADE LEVEL: 3rd - 4th

GENERAL OVERVIEW: The purposes of this unit are:

To differentiate the kinds of birds in this area and their adaptation to environment. To discover that birds are vertebrates. To relate how birds help man and how man can help man.

TEACHING/LEARNING RESOURCES:

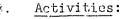
- 1. Reference materials:
 - Films:

Birds: How We Identify Them White Throat Birds and Their Characteristics

Filmstrips: Migration of Birds How Birds Serve Man Adaptions Beaks and Feet of Birds What Is A Bird? Discovering Birds

2. Ihuman Resources:

Carpenter Poultry Farmer Ecologists Conservationist Haturalist High School Students Industrial Arts Teacher Ornithologist



Making Bird Houses Making pine cone bird feeders

ERIC ^AFull Exct Provided by ERIC 26

UNIT TITLE: ANIMAL LIFE - VERTEBRATES: BIRDS

·	T
CONCEPTS	
	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be abl to:
Social Studies	
Dind microphics	
Bird migration	Participate in class discussion and make a map showing migration routes of different birds of
	this area
	· ·
· · · · · · · · · · · · · · · · · · ·	
Math	
Linear measurement	Compare and differentiate 1/4", 1/2" and 1"
	by drawing line segments
Weight of birds	Company and contract which to of hinds
weight of bilds	Compare and contrast weights of birds
Science	
Study of birds	Identify 4 local birds
a. Protection	List 3 ways birds are useful and/or harmful to
b. Shelter	man
c. Ecology	
	· · ·
terms in the	
Service 111 - Standard August	
-	
· ·	
• •	

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	•
	Conservationist
	Naturalist - State Park
Introduction through:	
Class discussion	
Trade books, films and filmstrips	
reace books, films and filmstrips	
	· · · · · · · · · · · · · · · · · · ·
Chart migration distances	Filmstrip - Migration of Birds
Make a chart of bird weights	Film - Birds and Their Characteristics
· · · · · · · · · · · · · · · · · · ·	
Class discussion of: a. Layers of feathers	Film - BirdsHow we Identify Them
b. Nests and babies	Ecologist
c. Migration	Poultry Farmer
28 - Contract (1997)	
	·
28	
0	

Full faxt Provided by ERIC

UNIT TITLE: ANIMAL LIFE - VERTEBRATES: BIRDS (continued)

<u> </u>	·
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, e a ch child will be able to:
Communication Skills	
Reporting and Writing	List 2 ways to help birds
Creative writing	Write reports of different birds
Re a ding a. Information b. Pleasure	Write a short story or poem about birds
Discussion in class	
Career/Self-Awareness	
Product Production	List 5 careers which produce products related to birds
Se rvices	List 5 careers which provide services related to birds
Awareness of others	Identify 2 characteristics (physical skills, emotions, attitudes) that can be inferred from other people's activities
· · ·	
ERIC	29

.

.

METHOD OF	IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
		· · ·
	a number of birds, write a short	Film Strip - How Birds Serve Man
be a specific	on why they like or would like to bird	Fil m Strip - Discover in g Birds
Research one c back to the gr	lassification of birds and report oup	Naturalist
Small group di	scussion of ecology problems	Film - White Throat
Interviewing:	Carpenter Poultry farmer Ecologists Conservationist Naturalist Department of National Resources Ornithologist	Industrial Arts teacher Same as those interviewed
Reports		
Assembly line	production of birdhouses	
·		

HANDS ON ACTIVITY (STUDENT PERFORMED)

Ι. NAME OF ACTIVITY

> BIRD HOUSE (Pattern (and literature) available for 25¢ from The Grand Rapids Augudon Club, 54 Jefferson Avenue, S.E., Grand Rapids, Michigan 49502)

ACTIVITY FORMAT II.

A. Tools and Materials

1/2" white pine Hand saw Drill-bits Hammer

Try squares Nails 7 medium eye bolts

В. Human Aides and Resources

> High School Students Industrial Arts Teacher

C. Procedures for this activity (with helpful hints)

- 1. Divide class into seven groups
- Students measures big pieces
 Saw big pieces
- 4. Locate holes in bottom, front and back pieces
- 5. Drill holes
- 6. Lay out angle cuts on sides
- 7. Cut angle on sides
- 8. Assembly
- 9. Mount bird on trees surrounding playground at Maxwell Park. Quality control person for each group.

III. **RESULT OF THIS ACTIVITY (AFTER IMPLEMENTATION)**

 $\mathbf{31}$

I. <u>NAME OF ACTIVITY</u>

PINE CONE BIRD FEEDER

II. ACTIVITY FORMAT:

A. Tools and Materials

string pine cones peanut butter chopped nuts

B. Procedures for this activity (with helpful hints)

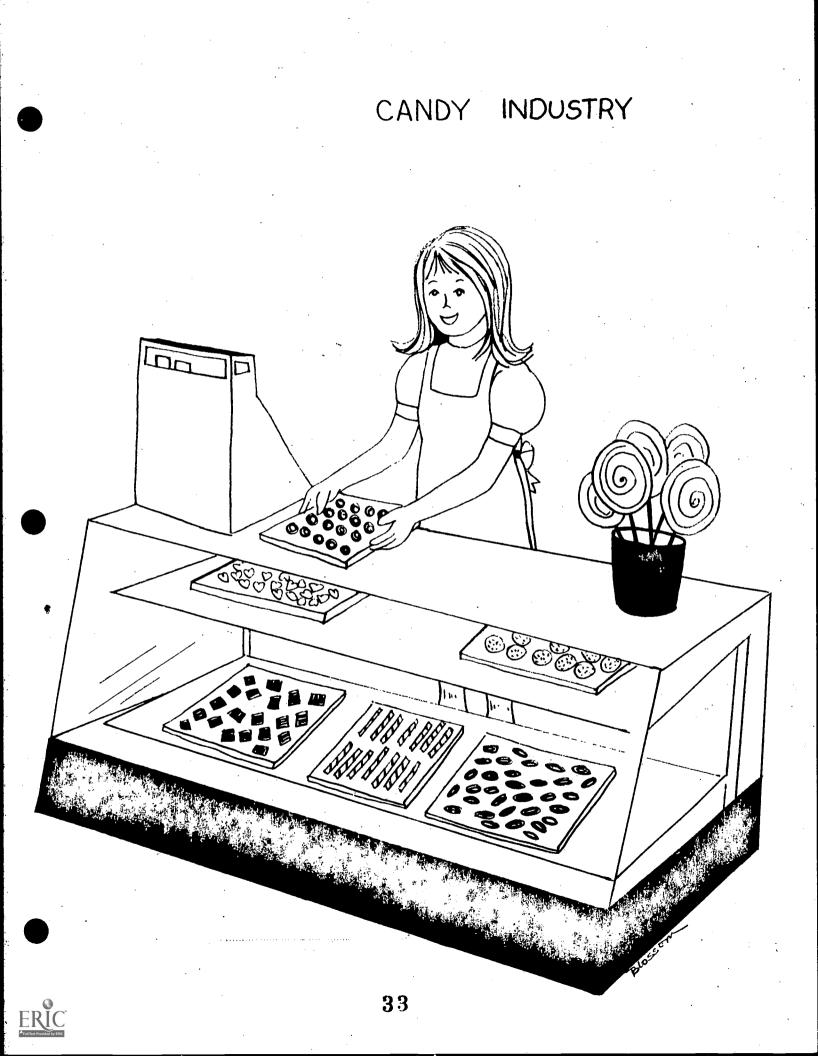
1. Tie string around pine cones

2. Cover cone with peanut butter

- 3. Roll in nuts
- 4. Hang on tree

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED FEACHING UNIT PLANSTEET

TITLE: CANDY INDUSTRY

GRADE LEVEL: 3-1

GENERAL OVERVIEW: The major purpose of this unit is to bring out career awareness and concepts of manufacturing and producing packaging and advertising.

TFACHING/LEARNING RESOURCES:

. Reference Mat.rials:

books:

Schuld of Humbers - "One. Two, Three. Four" Sounds of Laughter - "A Maker of lower" How To Book

Movie: Bakery Beat

'. Field Trips:

Trips to candy factories are restricted due to laws established by State of Michigan law

tato de l'ecocos:

Candy maker Parents to lemonstrate candy making Speaker from S.E.O.V.E.C. Store Representative from Nestles

Artivities:



25 a

CANDY INDUSTRY

will be awill be aWriting of prose and poetryDeveloping names for candy and candy companies Thank you notes Advertising slogans Writing commercials Interviewing for surveysWrite pro patternArtPackaging Advertising IllustratingWrite queArtPackaging DesigningPackage a AdvertiseSocial Sciences Candy around the world Differences in peoples tasteList 2 can Take a sur people lill History of candy	VIORAL OBJECTIVES
Writing of prose and poetryWrite propatternDeveloping names for candy and candy companies Thank you notes Advertising slogans Writing commercials Interviewing for surveysWrite queArtPackaging Advertising Illustrating DesigningPackage a Advertise Illustrating Design aSocial Sciences Candy around the world Differences in peoples tasteList 2 can Take a sur people lill List the o sweets and development	ult of this unit, each child able to:
Developing names for candy and candy companies Thank you notes Advertising slogans 	
Developing names for candy and candy companies Thank you notes Advertising slogans Writing commercials Interviewing for surveys Art Packaging Advertising Illustrating Designing Designing Designing Designing Differences in peoples taste History of candy List the osweets and development	ose by following a given
PackagingPackage aAdvertisingAdvertiseDlustratingIllustrationDesigningDesign aSocial SciencesCandy around the worldDifferences in peoples tasteTake a surpeople liftHistory of candyList the order sweets and development	estion suitable for an intervi
PackagingPackage aAdvertisingAdvertiseIllustratingIllustrationDesigningDesign aSocial SciencesIst 2 canCandy around the worldList 2 canDifferences in peoples tasteTake a sur people lindHistory of candyList the or sweets and development	
AdvertisingAdvertiseIllustratingIllustrationDesigningDesign aSocial SciencesImage: Sciences of the second	
IllustratingIllustrationDesigningDesign aSocial SciencesList 2 canCandy around the worldList 2 canDifferences in peoples tasteTake a sur people lindHistory of candyList the or sweets and development	a product
DesigningDesign aSocial SciencesList 2 canCandy around the worldList 2 canDifferences in peoples tasteTake a sur people lindHistory of candyList the or sweets and development	e a product
Social Sciences Candy around the world Differences in peoples taste Take a surpeople like History of candy List the order of the sweets and development	te a book
Candy around the world Differences in peoples taste History of candy List the of sweets and development	package cover
Candy around the world Differences in peoples taste History of candy List the or development	
Candy around the world Differences in peoples taste History of candy List the of Sweets and development	· · · ·
Differences in peoples taste History of candy List the osweets and development	
History of candy List the o sweets and development	andies from around the world
sweets and development	rvey of the types of candy lke
List 2 wa	origins of candy and nd several points of ent
	ays of preserving foods
<u>IC</u>	

RESOURCE PEOPLE & MATERIALS METHOD OF IMPLEMENTATION Read Charlie and the Chocolate Factory Magazines Produce a book Newspapers Write thank you notes Have contest for advertising slogans Candy making activities Sounds of Laughter -"Maker of Boxes" Make signs advertising product Art teacher Group discussion Tape from Nestles Survey Observations Research ٠. ‹



UNIT TITLE:

CANDY INDUSTRY (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
· · · · · · · · · · · · · · · · · · ·	As a result of this unit, each child will be able to:
Career/Self-Awareness	
Advertising	Design and make some form of advertisement
Packaging	Package a product made by himself
Manufacturing	Make candy
Sales	Sell candy
Consumer demand	Take a survey and make a product that was demanded the most
Assembly production	Take part in an assembly line production
Planning and decision making	Describe one advantage of combining interests and talents to produce a product
Science	
Changes in the state of matter	Demonstrate how a solid form of matter changes to a liquid and a liquid changes to a gas
Plant study: How sugar is made "Chocolate" Vanilla	Demonstrate how raw materials are refined and combined to produce an edible product
	Aprovis

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	Representative from Nestles
	S.E.O.V.E.C. Store students
Selling candy	
Candy making	
Survey	
Plan a choice of jobs for Role playing assembly line production Assembly production of making and packaging candy	4
packaging candy	
7	
Candy making	Bakery Beat - Movie
Group discussion	
Experiments - ice melting, butter melting	
Experiment - evaporate water - liquid to ga	4
· · · · ·	
· · · · · ·	

UNIT TITLE:

CANDY INDUSTRY (continue)

CONCEPTS		BEHAVIORAL OBJECTIVES
		As a result of this unit, each mile will be able to:
Math		
Measurement		Measure liquids and solids
Surveys		Take part in a survey
Money		Handle money through sale of product
		Calculate cost and profit of product
· .		Determine size of package needed for product
		Read a scale for weighing a product
	-	
e Angeler († 1997) Angeler († 1997)		
		· · · · · · · · · · · · · · · · · · ·
	• · · · · · · · · · · · · · · · · · · ·	
•		
ERIC		39

39

METHOD OF IMPLEMENTATION

n Age and an Age and a second se

Candy making

Conduct survey of class's likes and dislikes

Sale of product

Measuring

- 1) calculate amount of ingredients needed
- for prescribed amount of candy
- 2) materials for package manufacturing

Make up shopping list for ingredients

RESOURCE PEOPLE & MATERIALS

Parents

Sounds of Numbers - "One, Two, Three, Four"



I. HAME OF ACTIVITY

SET UP A CANDY FACTORY

II. ACTIVITY FORMAT

A. Tools and Materials

Hot plates Fry pan Cooking utensils

Ingredients in recipe for nobake candy Recipes

B. Procedures for this activity (with helpful hints)

- 1. Discuss necessity of sanitation
- 2. Make different kinds of no-bake candy in small groups
- 3. Discuss and do packaging in pie pans, labeling on scales
- 4. Weigh candy on scales and mark each candy box
- 5. List and glue contents of candy on each box
- 6. Give 1/2 lb. box of candy to mothers

III. RESULT OF THIS ACTIVITY (AFTER IMPLEMENTATION)

ORANGE NO-COOK CANDY

3/4 box powdered sugar
1 lb. package vanilla wafers (crumbled)
1/2 cup small can frozen orange juice

1 stick oleo - melted 1 cup chopped nuts 1 can or pkg. coconut

Chop nuts fine. Crumble cookies fine with a rolling pin. Mix all ingredients except the coconut in a large bowl. Shape candy into small balls. Roll in coconut - leave some plain. Yield: 3 dozen.

CANDY INDUSTRY

CANDY RECIPES

DREAM NUT FUDGE

1 3 oz. pkg. cream cheese 2 1/2 cups confectioners sugar 1/2 teaspoon almond extract

With electric mixer at medium speed, beat cream cheese until soft and smooth. Slowly blend in sugar, extract, nuts, salt. Press into greased 9 by 5" pan. Refrigerate until firm, cut into squares. Makes about 2 1/2 dozen squares.

SKILLET FUDGE

2 squares unsweetened chocolate chopped	7 tbsp. milk
l l/2 cups sugar	7 tbsp. white corn syrup
l tbsp. margarine	l tsp. vanilla
2 tbsp. butter	

Combine all ingredients in heavy 12 inch skillet. Bring to a hard boil and boil 1 minute. Cool for 5 minutes. Beat until it loses most of its gloss. Pour into greased 8 x 8 pan. Cut into squares.

MINT WAFERS

l egg white 2 1/2 cups confectioners sugar

2 tsp. butter 1/2 tsp. peppermint flavoring

Combine ingredients in mixing bowl. Mix until creamy. Tint in shades of delicate yellow, pink, and green. Knead with hands. Shape into 1 inch balls; place on waxed paper and flatten with times of a fork.

SNOWBALLS

1 ó oz. pkg. semi-sweet chocolate pieces 1/3 cup evaporated milk 1 cup confectioners sugar

1/2 cup chopped walnuts 13 1/2 oz. can-coconut

VANILLA WAFER TURTLES

Use two cookies for each turtle. Frost underside and attach legs of elbow macaroni. A tooth pick doubles for a tail and anchor for head of gumdrop. Frost between 2 cookies to hold toothpick.

Frosting: Mix one cup confectioners sugar and 1 tbsp. milk until smooth.

1/2 cup chopped nut or coconut pinch of salt

I. NAME OF ACTIVITY

32

MAKING ROCK CANDY

II. ACTIVITY FORMAT

A. Tools and Materials

Oven or hot plateBowlPotSpoonCookie SheetCup

B. Human Aides and Resources

Teacher L.R.T. Parent

C. Procedures for this activity (with helpful hints)

Rock Candy

3 3/4 c. sugar 1 1/2 c. Karo light corn syrup 1 c. water 1 t. Lorann Flavoring Oil (at Sherman's drug) Desired food coloring

- 1. Sprinkle cookie sheet, covered with foil with powdered sugar.
- 2. Mix first 3 ingredients in sauce pan. Stir over medium heat until temperature reaches 310° F. Remove from heat.
- 3. Stir in flavoring oil and coloring

4. Pour into foil, cool, break into pieces

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Great - easy to make - good to eat



1. NAME OF ACTIVITY

CAKE DECORATORS - LEARNING SEQUENCES

II. ACTIVITY FORMAT

A. Tools and Materials

Cakes (round)	÷	•
canes (round)	Knives	Candy
Frosting mix		Canuy
TIOSCIUS MIX	Spoons	Plates
Food coloring	1	TTAUES
TOOR COTOLIUB	Measuring tools	Bowls

B. Human Aides and Resources

Mothers

C. Procedures for this activity (with helpful hints)

- 1. Divide into 3 or 4 groups
- 2. Children will have a specific job
- 3. Each should have part in designing cake

I. - NAME OF ACTIVITY

CREATIVE WRITING - SENTENCE STRUCTURED LANGUAGE STORIES

II. ACTIVITY FORMAT

A. Tools and Materials

Copies of Sounds of Numbers, pg. 108, "One, Two, Three, Four"

Paper Pencil Crayon

B. Procedures for this activity (with helpful hints)

- 1. Read the story
- 2. Suggest title of candy and apply to the "First week of the year", etc.
- 3. Each child choses a number from 1-52 and writes a sentence following the pattern suggested.

45

- 4. Sentences are combined to make a book.
- 5. Expanding ideas Try individual books following the pattern of "A Maker of Boxes" in <u>Sounds of Laughter</u>.

ORANGE NO-COOK CANDY

3/4 box powdered sugar
1 lb. package vanilla wafers (crumbled)
1 stick oleo, melted
1 cup chopped nuts
1/2 cup small can frozen orange juice
1 can or package coconut

METHOD

Chop nuts fine. Crumble cookies fine with rolling pin. Mix all ingredients except coconut in a large bowl. Shape candy into small balls. Roll in coconut - leave some plain. Yields three dozen.



I. NAME OF ACTIVITY

CANDY SURVEY - RECOGNIZING CONSUMER DEMANDS

II. ACTIVITY FORMAT

A. Tools and Materials

Mixing bowls Tablespoons Measuring cups Confectioners sugar

Milk Flavoring Measuring spoons Wax paper

Foel coloring Saran Wrag Fork

- B. Human Aides and Resources
 - . Parent Aides
- C. Procedures for this activity (with helpful hints)
 - 1. Prepare ahead of time 3 flavors and 3 colors of Fondant candy.
 - 2. Each child samples one of each flavor.
 - 3. Each child states his preference of flavor and color.
 - 4. Answers are tallied.
 - 5. Note the most favored flavor and color.
 - 6. Class makes the candy according to results of surve_{σ}.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

RECIPE:

l box confectioners sugar l/4 cup milk l tsp. flavoring Food coloring

Combine ingredients and stir. Mixture will be stiff. Make small balls - flatten with fork. Wrap in saran wrap.



1. NAME OF ACTIVITY

LARGE GROUP CANDY MANUFACTURING AND PACKAGING

II. ACTIVITY FORMAT

A. Tools and Materials

Cooking utensilsYarnCooking ingredientsPaperSaran wrapPencils

B. Human Aides and Resources

Parent Aides

C. Procedures for this activity (with helpful hints)

Selected candy recipes

Manufacturing

Small groups One parent supervising each small group

- 1. Cut saran wrap
- 2. Wrap each candy in saran wrap

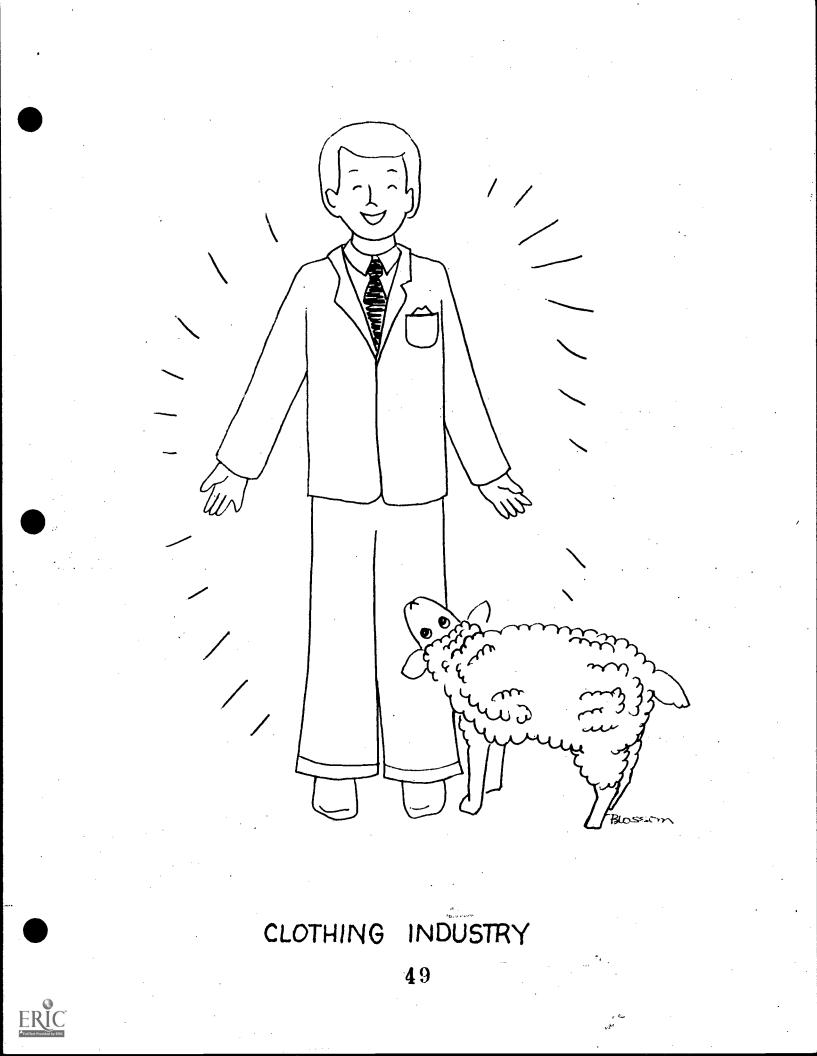
Packaging (Assembly Line Production)

- 3. Tie saran wrap with yarn
- 4. Attach pre-made label



2 children at each of the 4 stations





SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED MEACHING UNIT PLANSHEET

TITLE: CLOTHING INDUSTRY

GRADE LEVEL: 3-4

<u>GENERAL OVERVIEW</u>: The purpose of this unit is to apply social sciences, math, and career education concepts as they relate to the clothing industry, both in mass production and custom production.

TBACHING/LEARNING RESOURCES:

1. Reference Materials:

Filmstrips:

Cotton Growing and Ginning Cotton Spinning and Weaving Story of Wool

2. Field Trips:

SEOVEC Visit clothing store Greenfield Village

3. Human Resources:

Art teacher Seamstress Parents

Activities:

4.

Identifying materials used in clothing chart Making a bed pillow Making a vest Making a loom and weaving a belt

UNIT TITLE: CLOTHING INDUSTRY

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
<u>Science</u>	
Geographic and environmental factors	Compare climate and how it effects what we wear
	Collect the type of materials that goes into clothing
Social Studies	
Map skills	Locate on map where we live
Economic behavior	Compare types of dress found in different families in countries around the world
	Explain relationship of cost of clothes to climate
Math	
Linear measurement	Compare prices
Money concepts	Gather data for planning budget and pay and receive correct change
Prepare budget	Develop a personal budget
	Measure material to make pillows

51

.1

40

ERIC

METHOD OF IMPLEMENTATION		RESOURCE PEOP	PLE & MATERIALS
₩ 2 × . •		<u> </u>	
		_	
n the map find where different materials a ocated, grown or collected	are	·	
Make a display of types of clothing materia	als		
Make a collage of materials			
	 		
Use map skills to locate countries		Art Museum	
Compare and contrast types of dress found i	in]	International Instit	ute
amilies in different countries around worl		Magazines	
Find pictures or make pictures of different costumes. Place them on a world map		· · ·	
View filmstrips			and the second se
Using newspaper ads or catalogues, make cha comparing prices Investigate spending, buying and selling wi a family			
	. :		
Make a personal budget			
· · · · · · ·		·	· · · ·
			•
			· ·
· · · · · · · · · · · · · · · · · · ·			
			• • • • • • • • • • • • • • • • • • •
5	2 1		

UNIT TITLE: <u>CLOTHING INDUSTRY</u> (continued)

11

.

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Letter writing	Write a letter to a manufacturer or clothes shop
Report writing	Describe in writing 5 facts about the clothing industry
Art	1
Cutting	Duplicate patterns for pillow
Drawing	Assemble and sew a pillow
Designing	Design a costume
Career/Self-Awareness	
Producing raw materials processing	Identify a product and describe the stages of pro- duction from raw material to packaged product
packaging	Investigate and describe research done on raw materials
Servicing things people	List 5 classes of industry and 10 types of workers in the immediate area
Personalized planning and decision making	Give an advantage of combining interests to produc a product
Analysis of interests	Given a list of activities you like to engage in, identify 3 general interests
• • • • • • • • • • • • • • • • • • •	
	1

ER

METHOD OF IMP		RESOURCE PEOPLE & MATERIALS
	,	
requesting a catal	ing for price information or ogue clothing in Michigan	Catalogue
Make a pattern for 12" x 12"	a pillow and make pillow	Parent (possibly one who makes costumes
Design a costume fo Make a costume for	or self or another person. a play.	
workers would be ir costumes. e.g. tou	of industry and what kind of nvolved in making different urist agency, survey,	SEOVEC
workers would be ir costumes. e.g. tou marketing	nvolved in making different rist agency, survey,	SEOVEC
workers would be ir costumes. e.g. tou marketing Matching job to the	nvolved in making different rist agency, survey,	SEOVEC
workers would be ir costumes. e.g. tou marketing Matching job to the	nvolved in making different rist agency, survey,	SEOVEC
workers would be ir costumes. e.g. tou marketing Matching job to the	nvolved in making different rist agency, survey,	SEOVEC
workers would be in	nvolved in making different rist agency, survey,	SEOVEC
workers would be ir costumes. e.g. tou marketing Matching job to the	nvolved in making different rist agency, survey,	SEOVEC

Full Text Provided by ERIC

•

. 43

CLOTHING INDUSTRY

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

MAKING A PATTERN AND BED PILLOW

II. ACTIVITY FORMAT

A. Tools and Materials

Newspaper print paper Material Thread & needles Old nylons

Sewing machine Rulers Iron Scissors

B. Human Aides and Resources

One parent for group of four

C. Procedures for this activity (with helpful hints)

Have group demonstration with uncut pattern to show - describe ruler and how to use it.

Using chalkboard demonstrate each line and where it would go in respect to the others.

Have child choose two pieces of material bigger than 12" $\rm x$ 12".

Explain that the two outsides are put together and why. Show seam.

Have child lay pattern correctly on material and pin. Carefully cut.

Have each child sew through sides, trim, turn right side out, press, stuff with nylons, slip stitch top.

I. NAME OF ACTIVITY

MAKING A VEST

II. ACTIVITY FORMAT

A. Tools and Materials

Felt Thread & needle Pattern Ruler Scissors Sewing machine Large white paper

B. Human Aides and Resources

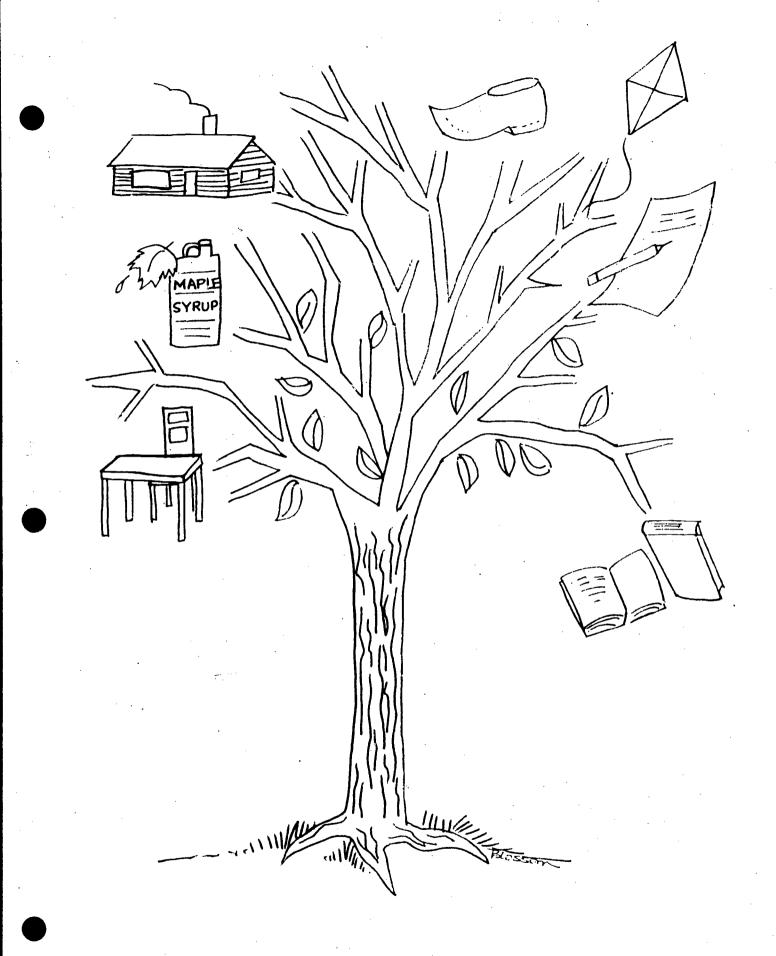
One parent group of four

C. Procedures for this activity (with helpful hints)

From basic pattern make adjustments for smaller and larger child (have resource person demonstrate this). Make own pattern. Lay out, pin, cut and sew up sides. Add desired fringes, pockets and designs.

III. RESULT OF THIS ACTIVITY (AFTER IMPLEMENTATION)

A custom-made vest is made as craftsmen do.



MAN'S USE OF RESOURCES

ERIC

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: MAN'S USE OF RESOURCES

GRADE LEVEL: 3-4

<u>GENERAL OVERVIEW</u>: This unit is designed to integrate plants, solid earth, and water to show how man uses his resources for food, clothing and shelter. It is a general overview of each unit and how they are related rather than an in-depth study of each unit.

TEACHING/LEARNING RESOURCES:

1. <u>Reference</u> materials:

Filmstrips: Iron Ore Mining in Michigan Mineral Wealth Fishing Industry Seacoasts, Shipping and Fishing Cattle and Corn Belt Story of Wool A Dairy Farm Lumber Mill Story of Cotton

Books: Your World Let's Visit a Farm Let's Visit a Ship Let's Visit a Clothing Factory Catalogues Newspaper advertisements

Poem: The World - Robert L. Stevenson

Realia: Cotton bale Miner's hat

Movies: The Cotton Farmer Dairy Farm Today Foods from Grains

Flat Pictures: Harvesting Wheat Miniature Loom Corn Belt Farming Picking Cotton How an Automobile is Assembled The Corn Farmer How Weather Helps Us



Kits: Wool Education Center 200 Clayton Street Denver, Colorado 80206

> The Story of Cotton National Cotton Council of America P.O. Box 38112 Memphis, Tennessee 38112

2. Field Trips:

Weber's Nursery Cranbrook Nature Center (Sap tapping - good in March) The Weavery on Washington Street - Royal Oak

3. Human Resources:

Fabric store retailer Parents from community with special talent (e.g., knitting) Salesmen

4. Activities:

Weaving a simple rug Growing cotton Building a weaving loom Tie dying Yarn holders Buying toys within a price limit Making car models out of wood or tagboard Grand Prix Race Cut out ads from newspaper - design own ads Discuss toy safety Discuss history and development of toy industry Meat tray wall plaques

UNIT TITLE: MAN'S USE OF RESOURCES

49

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
<u>Social Studies</u>	
Region a l pl a nt growth T ra nsport a tion H is tor y	Analyze a map to gather needed information for plant growth across nation of a certain crop
Marketing Naps a nd ch a rts	Identify and compare 3 methods of transporting goods
۵	
Science	
Use of l a nd a nd w a ter Ph ysica l environment Water a nd air pollution	List 5 occupations created by the cotton industry
How to use the microscope Identification of parts of the microscope	Describes what takes place at a textile mill
Investig a te and record the structure of cotton Principles of dyeing a nd mord a nting	Name products and byproducts of cotton and their uses
	Describe harvesting procedure of cotton
	Describe what happens to cotton in the cotton gin
•	Help collect and organize data on the uses of natural resources
	Analyze man's use of land and water resources

ERIC

ME	THOD OF IMPLEMENTATION	RESOURCE PEOPLE & MAT	ERIALS
			<u> </u>
• .			
		an a	
	Children will discuss the origins of clothing		
:	Field trip to weaving shop	. .	
	Draw graphs		
	Field trips	Airports Shipping ports Trucking stations Warehouse Rail station	
		· · · · · · · · · · · · · · · · · · ·	
	Children will identify fabric from		
	a. animal b. plant		
	c. synthetic		
	They will state which part of animal or plant is utilized		
	Field trip to fabric shop or Greenfield Village		
	Make a classbook of samples		
		· · ·	
	61		·
			: :

UNIT TITLE: MAN'S USE OF RESOURCES (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Role playing Read and follow directions Writing letters	Role play the picking of a cotton crop Distinguish between goods and make a chart of thei
Vocabulary Reports	usefulness
Research	List 5 things we could not do without
	Discuss why the allocation of resources depends on the goals of our society
Art	
Cutting Pasting Color wheel and color families Aesthetic value of fabrics and yarns	Prepare resource chart of 5 different fabrics Paint or draw pictures of 4 ways in which the ocean is a resource Identify and draw one or more hand tools used
<i>.</i>	today
· · · · · · · · · · · · · · · · · · ·	· · ·
	at a contractor
	S for a

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS		
4			
Children will write hypothetical stories about various foods and goods	Clothing salesman or retailer - supply and demand		
Make a touch and feel book using different fabric textures and write how it feels. Ex., This feels as rough as sandpaper.			
· · · · · · · · · · · · · · · · · · ·			
Use assorted fabrics for bulletin board Paste assorted texture of fabrics on paper	Parent w. talent in tie dyeing		
identification (rough, smooth) Tie Dyeing			
Draw pictures after research			
63			
ERIC Partice result of the			

UNIT TITLE: MAN'S USE OF RESOURCES (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES		
Math	As a result of this unit, each child will be able to:		
Linear measurements Number concepts Cost of product (including time and materials)	Plot and graph different agricultural regions and different physical environments		
Career Awareness	· · · · · · · · · · · · · · · · · · ·		
Workers produce good s Workers producing services Transportation of people and things	Define ways human and natural resources are conserved		
	Organize data on ways certain goods are transported Identify 5 poople who encycle		
	Identify 5 people who provide us services Identify 5 people who provide us goods		

METHOD OF IMPLEMENTATION		RESOURCE PEOPLE & MATERIALS		
	• • •			· · ·
Me as ure ya	ardage and patt	erns	Clerk from fabric store	
Tell equiv line a r mea	valents - betwe	en units of	Seamstress	
			SEOVEC - Clothing Store represen	tative
			Tailor	
				•
		•		
× , `.			Any of the above	
•	rt listing comp ussion on ident nd goods			
				•
: :				
	-	• .		•
				Чн.,
		· ·		
. <u>.</u>		• •		• .:
、			-1	
		65		

mm?

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. <u>NAME OF ACTIVITY</u>

TIE DYEING

- II. <u>ACTIVITY FORMAT</u>:
 - A. Tools and Materials

hot plate
wooden spoon
T-shirts or
blouses (white)

B. Human Aides and Resources

Te**ac**her P**a**rents Te**ac**her Aide

C. Procedures for this activity (with helpful hints)

- Tie fabric and secure tightly choose white or light colored washable, dyable fabric. Wash to remove any sizing. Crumple, twist, pleat, fold, or gather an area of fabric together. Secure tightly with string or rubber bands.
- 2. Arrange ties in a random or planned pattern.
- 3. Immerse wet fabric or dip tied areas into a simmering Rit dye bath - prepare bath using 1/2 package dye for about every quart of hot water in a container large enough to avoid crowding. Dissolve completely. Stir tied fabric in simmering dye bath for 10-15 minutes or longer for thick, bulky fabric or ties. When desired color is reached, remove from dye bath and squeeze out excess dye.
- 4. Rinse thoroughly rinse, remove ties and rinse again thoroughly in cool running water until runs clear. Hang to dry and iron while slightly damp.

TTL. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Items must be clean before dyeing. Students should not handle hot shirts. This must be done by an adult.



56

225 - 147-1--

HANDS ON ACTIVITY (STUDENT_PERFORMED)

I. <u>NAME OF ACTIVITY</u>

YARN HOLDERS - SHAPED LIKE AN APPLE

II. ACTIVITY FORMAT:

Α. Tools and Materials

> yarn - red and green knitting needles scissors 32 bone rings 8 packs yarn felt - green

Human Aides and Resources Β.

> Teacher Teacher Aide Parents

C. Procedures for this activity (with helpful hints)

- 17 rows straight stitch, 17 rows purl stitch. This is the 1. stockinette stitch.
- 2. Cast on 20 stitches. Gait every stitch on the first row.
- On the second row, insert the right needle into the front of 3. the first stitch on the left needle from the right side and slip the first stitch from the left needle onto the right needle.
- Bring yarn to the front of your work. Now you are ready to 4. purl.
- Insert the right needle in the front of the next stitch on the 5. left needle from the right side.
- 6. Bring the yarn over the point of the right needle.
- 7. Draw the yarn through the stitch.
- .8. Slip the old stitch off the left needle, thus completing the first purl stitch.
- 9. Keep yarn to the front of your work and continue to purl the entire length of the row, repeating step 5 and 8.
- 10. Knit the third row, purl the fourth row.
- Repeat these 2 rows alternately until you have seventeen rows, 11. or until you have a strip 4-1/2 inches long and 11 inches round.
- 12. Run draw string on each end.
- Crochet one bone ring for each apple for holder, 3/4" in 13. diameter.
- 14. Cut leaves from strips of felt. Sew on ring.
- 15. Stuff with roll of twine.



I. NAME OF ACTIVITY

BUILDING A WEAVING LOOM

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

A. Tools and Materials

3/4" scrap wood (at least 10" long)hammersmall screw eyes (size 214-1/2)rulercoat hangers or wirepencil1-1/4" bradswire cutter and plierssawsaw

B. Procedures for this activity (with helpful hints)

- Saw wood so that you will have two 8-1/2" x 1/4" pieces and two 4-3/8" x 3/4" pieces
- 2. Lay the two short end pieces on top of the two long side pieces so that the ends are even and the four sides form right angles at the corners
- Nail the pieces together, using 2 nails for each corner -Drive the nails through the side piece first (long piece)
- 4. Mark the short ends at every 3/8 inch. You should have 10 marks

5. Screw the screw eye in first, then the finishing nails, and ending with the screw eye

- 6. Cut the wire into 10 inch lengths
- 7. Bend one side of wire into a hook
- 8. Insert the wire lengthwise through the screw eyes

I. NAME OF ACTIVITY

MEAT TRAY WALL PLAQUES

II. ACTIVITY FORMAT:

A. Tools and Materials

Yarn Large eye needles Styrofoam meat trays Crayons

B. Human Aides and Resources

Adult or older student to help thread needle

C. Procedures for this activity

- 1. Children draw design on meat trays with crayons.
- 2. Use yarn to fill in pictures.
- 3. Punch hole in top and make a yarn loop to hang plaque.

1. NAME OF ACTIVITY

WALL HANGINGS

II. ACTIVITY FORMAT:

A. Tools and Materials

Burlap Yarn Large eye needles Dowel rods

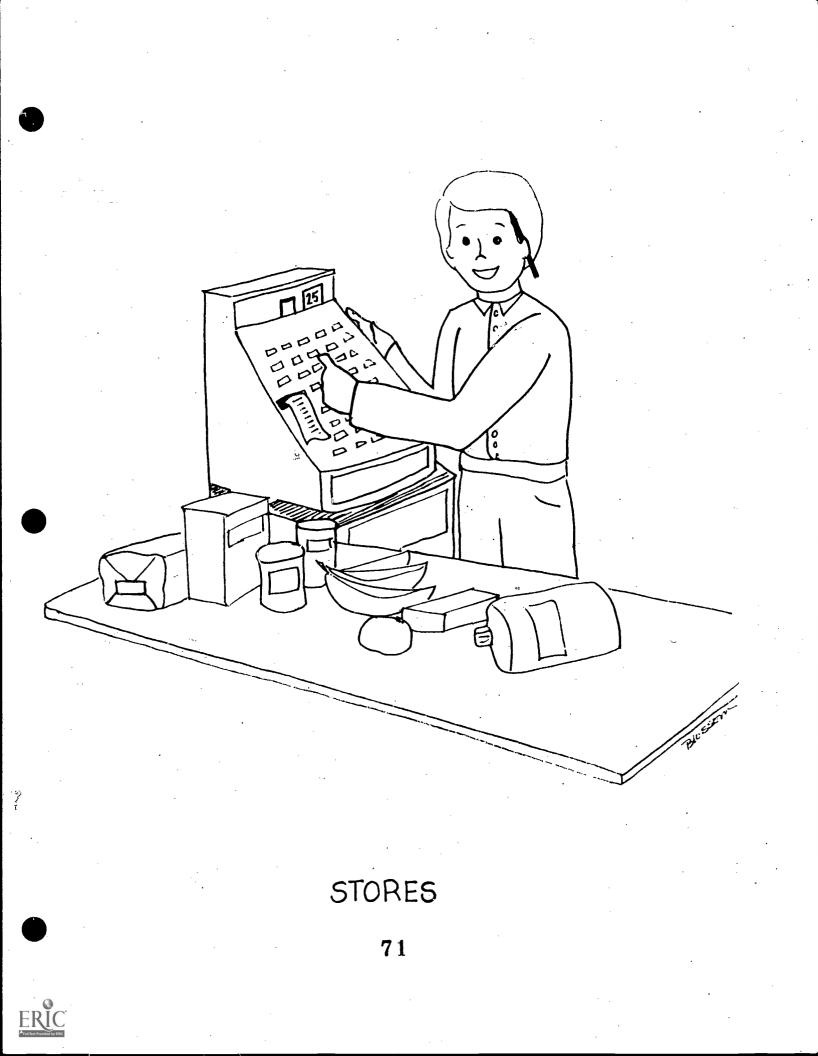
B. Human Aides

Parents to help cut strips and help thread needles

- C. Procedures for this activity
 - 1. Cut burlap into pieces 12" x 24", one for each child.

70

- 2. Children design picture on paper they want transferred to burlap.
- 3. Stitch design on burlap using crewel stitches.



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

61

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: GROCERY STORE (GENERAL STORE, TRADING POST)

GRADE LEVEL: 3-4

<u>GENERAL OVERVIEW</u>: The class will construct a grocery store. Transportation, food distribution, food processing, label printing, history of food storage, will be explored.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials</u>:

Book: Let's Go to the Supermarket

Filmstrips: Supermarket Workers Wally the Worker Watcher

Films: Why Eat Our Vegetables Let's Keep Food Safe to Eat Eat Well, Grow Well

Chart: At the Store

2. Field Trips:

Trip to the Grocery Store Trip to Coca-Cola Company - Pontiac

3. Human Resources:

Retail grocer Parents - one parent keeps bees and demonstrated equipment, etc. Doctor - followed up a food sub-unit College student Warehouse worke: Truck driver

4. Activities:

Build a grocery store Bake bread Make butter

UNIT TITLE: GROCERY STORE

· · · · · · · · · · · · · · · · · · ·	
CONCEPTS	BEHAVIORAL OBJECTIVES
, ,	As a result of this unit, each child will be able to:
Communication Skills	
Creative writing	Write a story as a group
	Identify two activities that have taken place
	Construct sentences telling about 5 pictures related to unit
· 👞	Write a story about a trip to the grocery store
Math	
Counting Linear measurement	Count objects in play grocery store and list
	Count the play money in cash register and total
	Add the cost of 2 or 3 items for sale in the play grocery store
	Make change
	Assist in the measuring of lumber
· · ·	
• •	
•	
ERIC	73

ME	THOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	Background information about goods as they travel from point of origin until they arrive in the grocery store	Coca-Cola Company warehouse worker
	Discuss and study available pictures and charts	
	Field trip to a grocery store	1
	Follow up	
) .		
2		
	Role playing:	
	P la ying store (storekeeper, cashier, customers)	Cash register cashier from a store
	· · · · · · · · · · · · · · · · · · ·	
	• •	
	7.1	

ERIC Full Text Provided by EFIC

· 63

GN) I IIIII: <u>GROCERY STORE</u> (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child.will be able to:
Science	
Nutrition	Categorize items to be placed on shelves
	Write about the nutritional value of 5 foods
<u>Career Awareness</u> Job Functions	
Production	List 5 jobs involved in a grocery store
Servicing	Describe at least 2 things which these workers do
Transportation of goods	Write or draw about the transportation and process- ing of goods when they leave the factory, farm or point of origin until they reach the grocery store
- 	



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Place items on store shelves	Film: "Let's Keep Food Safe to Eat"
National Dairy Council charts, pictures and related materials	
Cutting and pasting pictures of foods and place them in the seven basic food groups	
~	
· · · · · · · · · · · · · · · · · · ·	
NG A NAPATA	
View film loops and filmstrips showing actual processing and transporting of goods	Filmstrip: "Supermarket Workers" Doctor
Discuss various methods of transportation of goods	Ret ail g roc e r
Actual making of bread and butter	Truck driver
Packaging and pricing of bread and butter	
	*** ^
· · ·	

65

76

ERIC Full Taxt Provided by ERIC

I. NAME OF ACTIVITY

BUILD A GROCERY STORE

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

A. Tools and Materials

1/4" plywood 2 sheets
hammer
hand saws
saber saw
nails
yardstick

B. Human Aides and Resources

Parent aides for other activity groups

C. Procedures for this activity (with helpful hints)

- 1. Order lumber
- 2. Arrange for student aide to come
- 3. Set up activities for the part of the class which will not be working with tools
- 4. Use 2 sessions (about 1-1/2 hours) to cut wood, three sessions for nailing store together
- 5. Use saber saw for cutting large pieces (allow child to hold handle, while teacher guides it through). Hand saws should be used for smaller pieces
- 6. Five children at a time worked with student aide other children worked in groups making food posters, play money, drew and cut out pictures of foods for bulletin board.

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>



GROCERY STORE

6	7
•	•

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

BAKE BREAD AND MAKE BUTTER

- II. <u>ACTIVITY FORMAT</u>:
 - A. Tools and Materials

2 bowls	paper cups
2 sets measuring spoons	jars for butter
ingredients	2 electric frying pans
n ap kins .	2 blenders

B. Human Aides and Resources

4 parents to supervise groups

C. Procedures for this activity (with helpful hints)

- 1. Buy ingredients
- 2. Divide children into 4 goups:
 - 2 groups for bread baking
 - 2 groups for butter making
- 3. Each parent supervises one group
- 4. Drink buttermilk

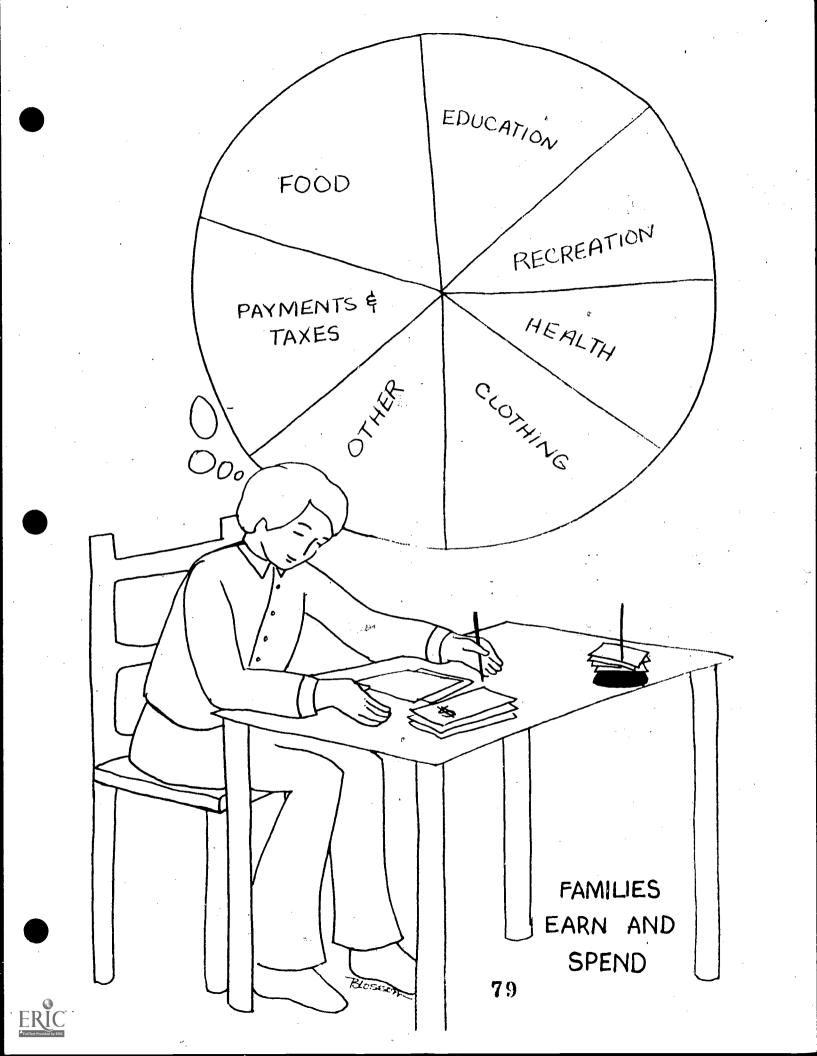
Recipe for Bread

Recipe for Butter

l cup flour
l egg
l/2 teaspoon baking powder
Bake in fry pan at 425 degrees

1 quart cream
dash of salt
put l cup cream into a pint
jar (or smaller jar)
Let each child shake the jar
a certain number of times until
it turns to butter

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

69

FAMILIES EARN AND SPEND

GRADE LEVEL: 3-4

GENERAL OVERVIEW:

This unit introduces the child to man's methods of producing goods and services and to each person's dependence upon the labor of hundreds of other people. He also learns that his family uses its income to buy the goods and services it needs. He will begin to recognize that people can spend their income in many different ways. He will recognize that no person can buy all the goods and services he would like; therefore, he must make choices among different ways of satisfying his needs and wants. The children will learn that people produce goods and services for others to earn income, but they also give goods and services to others to 'be helpful. That people perform different kinds of work due to different preference and skills.

TEACHING/LEARNING RESOURCES:

1. <u>Reference materials</u>:

Books:

<u>Come to Work With Us In a Department Store</u> <u>Come to Work With Us In a Hospital</u> <u>Come to Work With Us In House Construction</u> <u>Come to Work With Us In a Newspaper</u> <u>How to Earn and Use Money</u> <u>Let's Go to the Supermarket</u> <u>Let's Build a House</u> <u>Let's Visit a Hospital</u> <u>Let's Visit a Bakery</u>

Filmstrips:

Wally, the Worker Watcher Supermarket Getting Goods to Users Andy Lends Money to the Bank Money We Earn Things We Buy Introducing Economics Rules We Follow

Film Loops:

Bricklayers Cooks and Chefs



Movies: Bakery Beat Story of the Wholesale Market

Records: World of Man - His Work

2. Field Trips:

Walk to store - observe roles of working people

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

Parents who are clerks Manager of a store Parent explains how she plans her shopping High school boy who is a stock boy Assembly line worker Salesman Parents - mother volunteer aides 2 role models: teachers' sons describe car wash job Personnel manager

4. <u>Activities</u>:

Assembly Line Chair Wash Making Store Making Pennies Cupcakes Caramel Apple Sale Popcorn Factory Christmas Ornaments (mouse) School Bus (assembly line concept) Candle Sale

UNIT TITLE: FAMILIES EARN AND SPEND

71

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	·
Mon ey Measurement Addition and subtraction facts	Count money, make change, make comparison of profits
	State 2 purposes of money as a medium of exchange
	Collect data on 3 ways people acquire income
	Keep a daily log of their spending
	· · · · · · · · · · · · · · · · · · ·
• •	
	•
Communication Skills	
Writing Reading books and filmstrips Crown discussions	Prepare a chart listing 5 human needs and 5 human wants
Group discussions Booklets	Write a simple thank-you letter
	View and read filmstrips chosen from reference list
	· · · · · · · · · · · · · · · · · · ·
	1

Full East Provided by ERIC

· · · ·	· ·
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	· · · · · · · · · · · · · · · · · · ·
Field trips:	Cashier
To a food market to buy apples and popcorn for the sale	
Visit a bakery to see a production line in operation	Bookkeeper
Go to a local hospital or center to give our earnings to a group for Christmas	
Children will count the chairs and children in the room	
· · · · · · · · · · · · · · · · · · ·	
Discussion of what people need and want	Parent - share plan for family shopping
Compose thank-you letters to guest speakers	
Experience stories written by teacher as child describes car wash	
Children describe family visits to car wash	
83	

. 72

ERIC Aruitest Provided by ERIC

JNIT TITLE: FAMILIES EARN AND SPEND (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able
Social Studies	to:
World of work	List 5 jobs which involve producing goods
Interdependence of goods and services	List 5 jobs which involve providing a service
	List 5 jobs which involve producing goods and one service job related to each one
· · ·	Match 2 pictures of families to 2 different climate areas in the United States and tell 2 ways how they might earn their living and what 2 things they would need to buy from someone else
,	
· .	
алана (ул. 1997) Алана (ул. 1997)	
Science	
Plant environments	List 5 crops and match them to a dry, wet, hot, or cold climate depending on where they are grown
Weather conditions	
KIC	84

.

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Role playing Hands-on activity - Classroom Chair Wash Children described family visits to car washes	Manager of store Assembly_worker Salesman
Discuss weather maps and pictures of families in different climate areas in the United States - the effect on family living, earning and spending	Restaurant worker Storekeeper - clerk Barber
Class discussion: What goods and services do families use: a. Restaurant workers b. Storekeeper - clerk c. Barber d. Grocery store worker e. Construction worker	Grocery store worker Construction worker
 Why do people have different skills: a. To provide us with the different things we need 	
Research and report back - chart showing plants which grow in dry, wet, hot or cold climate	

ERIC Full Text Provided by ERIC 85

UNIT TITLE: FAMILIES EARN AND SPEND (continued) CONCEPTS BEHAVIORAL OBJECTIVES As a result of this unit, each child will be able to: Art Attractive packaging Design a book cover Advertising Make signs to advertise sales Draw a picture and write a story about each: the laborer, inspector and manager Draw a picture of each step in producing a mousedecoration for a Christmas tree Career/Self-Awareness Reasons people work Orally tell one reason why people work Functions of work: Tell why people have different kinds of jobs (1,2,1,2)a. People have many and varying needs goods production Operate on an assembly line basis service production Draw 2 pictures, one that shows family members working together and one that shows them working elsewhere

METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS cising or packaging person A (i.e. gift wrapper) Make, package, and advertise a product Draw picture of each step producing a mousedecoration for a Christmas tree Role playing experiences: Personnel manager Being a store clerk or manager of store A mother taking her child to market to buy food for the family Role playing incorporated: Act out buying and selling Act out role of manager Selling of candles to one another - giving and receiving money Role playing: Popcorn assembly line Selling popcorn Make a chart together showing reasons why people work 87

2.1

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

CARAMEL APPLE SALE

- II. <u>ACTIVITY FORMAT:</u>
 - A. Tools and Materials

21 - 14 oz. caramel candies 1-1/2 cup water 1 bushel Jonathan apples approx. 150 sticks hot plate

mixing bowl wooden spoons double boiler waxed paper and baggies

B. Human Aides and Resources

Parent Teacher Teacher Aide

C. Procedures for this activity (with helpful hints)

Melt caramel with water in double boiler or sauce pan over low heat. Stir occasionally until sauce is smooth. Wash and dry apples. Insert a stick into end of apple. Dip into hot caramel sauce, turn until coated. Scrape off sauce from bottom of apples. Place on greased waxed paper. Chill until firm. Keep in cool place.

88

III. <u>RESULTS OF THIS ACTIVITY</u> (AFTER IMPLEMENTATION)

78

I. NAME OF ACTIVITY

CUPCAKES

II. ACTIVITY FORMAT:

A. Tools and Materials

3 boxes of cake mixmixer6 eggswooden spoon3-3/4 cups watermuffin pansmixing bowlwaxed paper

B. Human Aides and Resources

Te**ac**her Te**ac**her Aide

C. Procedures for this activity (with helpful hints)

Blend in large mixing bowl at low speed until moistened cake mix, water and eggs Beat 2 minutes at medium speed Bake at 350 degrees for 15 to 25 minutes Remove cakes from pan, cool 15 minutes on cooling rack Makes 90 cupcakes

89

III. <u>RESULTS OF THIS ACTIVITY</u> (AFTER IMPLEMENTATION)

نې د د د موجو دو ده د

I. NAME OF ACTIVITY

SCHOOL BUS

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

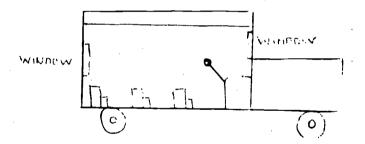
l" maple dowel rodplywood1/8" dowel rod3/4 x 1/2 strips of soft woodbuttonsElmer's Gluepainttackssandpapernails

B. Human Aides and Resources

Parents Teacher Aide

C. Procedures for this activity (with helpful hints)

Wheels l" or 7/8" maple dowel rod; steering column 1/8" dowel rod; Steering wheel - button; headlight - button; frame - 8" x 3-1/2" axle - $3/4 \times 1/2$ " strips of soft wood; top 7-1/2" x 3"; back -3 x 3-1/2"; front 3 x 3-1/2" plywood



Cut appropriate number of axles. Measure them to fit between chassis. With nails and glue, attach. With brace and bit, drill a 1/4" hole diagonally between the chassis and engine. Cut a 1/4" dowel 2-1/2" long. Glue it into hole. Place button mold in a vise so that the vise will hold grain of wood together. Attach seats, put cab; finally attach wheels.

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>



• NAME OF ACTIVITY

ASSEMBLY LINE CHAIR WASH

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

chairs	brushes
soap and water	sponges
cleanser	r a gs

B. Human Aides and Resources

2 mother volunteer helpers

C. Procedures for this activity (with helpful hints)

- 1. Ten chairs for first "line" were lined up by sink
- 2. First child wiped chairs with a wet sponge
- 3. Second child sprinkled on scouring cleanser
- 4. Third child scrubbed chairs with a scrub brush
- 5. Fourth child rinsed chairs with a sponge
- 6. Fifth child dried chairs with a rag
- 7. Mother inspected chairs to see if they were clean
- 8. Sixth child took chairs back to tables when clean 9. First and second child helped men floor floor
- 9. First and second child helped mop floor after first jobs were finished
- 10. Second mother served as "boss" on the job

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>



I. NAME OF ACTIVITY

81

CHRISTMAS ORNAMENT (MOUSE)

II. ACTIVITY FORMAT:

A. Tools and Materials

scissors thread - whiskers punch to make yarn - tail holes paste felt - pink, yellow, gray, red

B. Procedures for this activity (with helpful hints)

- 1. Trace pattern for body of mouse
- 2. Cut body
- 3. Cut ears
- 4. Paste ears
- 5. Cut eyes
- 6. Paste eyes
- 7. Cut whiskers
- 8. Paste whiskers
- 9. Cut nose
- 10. Paste on top of whiskers
- 11. Cut tail
- 12. Paste tail
- 13. Add hanger

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



8	2

I. NAME OF ACTIVITY

MAKING, PACKAGING AND SALE OF CANDLES

IL ACTIVITY FORMAT:

A. Tools and Materials

coloring (can use crayons) scents small milk cartons or paper cups plastic bags hot plate

double boiler
wax
string
paste sticks .
newspaper

B. Procedures for this activity (with helpful hints)

- 1. Melt wax in double boiler
- 2. Add coloring and scents
- 3. Cover work area with newspapers
- 4. Measure string so that end touches bottom of milk carton /
- 5. Tie string to paste stick
- 6. Lay stick on top of carton
- 7. Pour wax into carton until it is 1/3 full
- 8. Let harden until real hard approx. 1 day
- 9. Repeat #8 until carton is full using different colors
- 10. Cut string and paste stick off
- 11. Peel off carton
- 12. Put candle in plastic bag and staple sheet
- 13. Attach tag with product name group and made by
- 14. Line candles up on table in main hall
- 15. Several children and teachers helping sell candles to student body
- 16. Call children down by grade level
- III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. <u>NAME OF ACTIVI</u>TY

83

POPCORN FACTORY

II. ACTIVITY FORMAT:

A. Tools and Materials

poppersmeasuring cupslarge garbage bagssmall plastic bagsoiltierspopcornboxessaltboxes

B. Human Aides and Resources

Mothers

C. Procedures for this activity (with helpful hints)

Pop the corn - two days
Bag the corn on an assembly line - 1 day

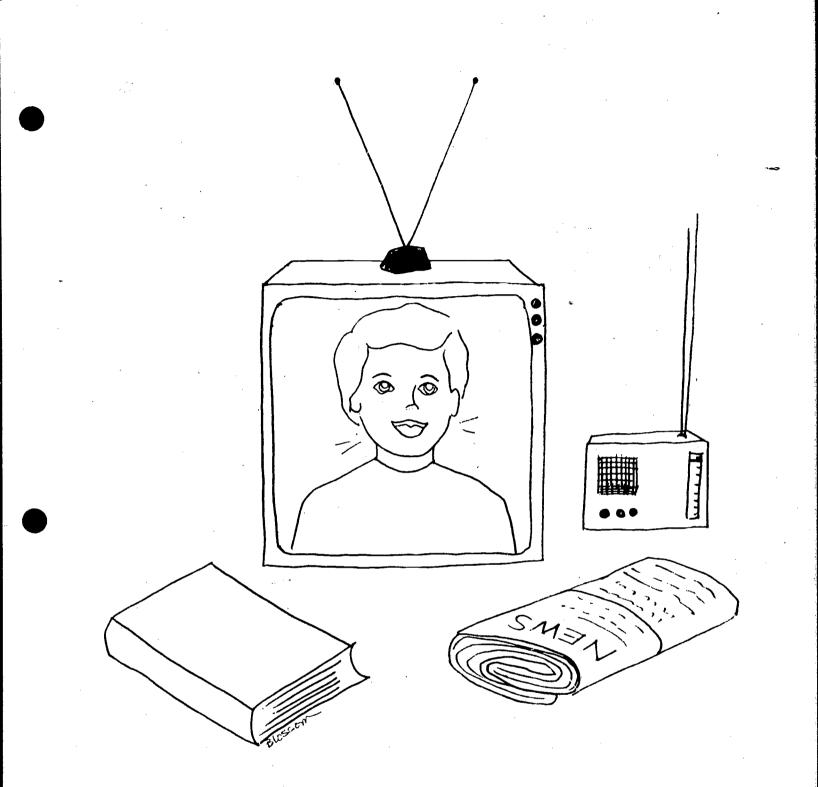
Assembly line:

ag corn	tie b a g	l a bel bag

Sell corn - 2 days

EL. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





COMMUNICATIONS



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: COMMUNICATIONS

GRADE LEVEL: 3-4

85

<u>GENERAL OVERVIEW</u>: The purpose of this unit is to study the development of written and oral communication starting with clay tablets, to the present time and incorporating the production and presentation of television programs.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials:</u>

Films:

Life in Ancient Rome - The Family (Scrolls) Japanese Family (Japanese writing materials) Indians of Early America (picture writing) That's News to Me (about Daily Tribune) Los Tres Osos (Spanish - other languages) "Robert McCloskey" - Book designing Oakland County Schools: "Hard of Hearing"

Filmstrips:	Our Alphabet	You and Your Newspaper
	Writing with Pictures	The Newspaper Boy - ECF102

Books:

The Genie and the Word - Bueher "Louis Braille" pp. 59-69, More Than Words, Macmillan Co. "Telestar" p. 70, More Than Words, Macmillan Co. Come to Work with Us in a Newspaper - Wilkinson; Saxtant Press Glad You're With Us (Handbook for Tribune employees) News Explorer issued 11/27/72 on newspaper styles and format Royal Oak Tribune - free movies Social Science Text - Unit 2 - Level Follow My Leader by J. Garfield (fictitious story of blind boy his rehabilitation - written by a blind author) Story of Helen Keller How Books Help Us - McCabe; Benefic Press Sending the Word - Buehr Communication - Batchelor Your World: Let's Publish a Book - Pope; Taylor Publ. Your World: Let's Visit a Newspaper - Pope; Taylor Publ. Your World: Let's Visit a Paper Mill - Pope; Taylor Publ. The Romance of Writing - Irwin; Viking Press Communication - Colby How Printing Helps Us - McCabe; Benefic Press "Johnny Three Eyes" pp. 173-183, Roads to Follow, Scott, Foresman & Co. Braille cards and braille Reader's Digests



A.B.C.'s of Hand Tools (Booklet) A.B.C.'s of Hand Tools (Movie) <u>How Television Works</u> (Book) The Globolinks, a short musical LET filmloop - Photographer T.V. Guide Detroit News **Teaching Children About Technology - Scobey, p. 400**

2. Field Trips:

Daily Tribune - Fridays 4 p.m. Macomb Community College - T.V. Center Oakland Vocational Center Trip to Telephone Company Trip to Western Union Office Kimball High Print Shop Local Print Shops Royal Oak Tribune Rochester Leader Dog Training School

3. Human Resources:

Actress T.V. operator, M.C.C. - lights, make-up, stage design - radio announcer, M.C.C. People who work at newspaper Detroit News Representative Animal trainer Person from Deaf Society

4. Activities:

Role Playing Experiences Characterizations in play Auditioning for plays Role-playing - printer, artists Printers - print lost and found article two ways Artists - illustrate picture of missing dog Activities from the Detroit News Activity cards



UNIT TITLE:

COMMUNICATIONS

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	List 2 prehistoric ways of communication
Reading - intonation, dictionary work, understand the	List 2 ways of communicating in written form
play format	List three inventions which have helped us learn the ideas of the past
	List 3 means of written communications which are no longer used
	Participate in group discussion on different types of communication
	Describe 3 language skills that are incorporated into a play and why
	- Contraction of the second seco
Creative Writing - advertising, writing letters and invitations	Write a newspaper article in an area of his choice Write a telephone conversation
	Make advertisement posters and programs
	Write ad for Yellow Pages, classified ad
	Write thank-you notes to all outside people who helped
Sentence construction	Identify correct English usage in a newspaper article; subjects, predicates, etc.
Drama	Demonstrate telephone etiquette for personal and business calls
	98

E

			<u> </u>			
^ 	AETHOD OF IMPLEMENTATION	RESO	URCE PE	EOPLE	8 MATI	ERIA
					_	
	· · · · · · · · · · · · · · · · · · ·			· .		
	Poetry writing					
	Art illustrations	* 1.441				
	Book making - running off dittos					
	Sewing books together		-			
	Play the game "telephone"					. ک
	Replace blurbs in cartoon strips with own dialogue					
	Cut articles from the newspaper and display them on a bulletin board					
	Have the children write who would be most interested in the article: i.e., soy bean prices, the farmer, housewives, pollution, laws and industry					
	Listen to poems about Valentine's Day					
	Listen to patterns for creative writing					
	Write their own patterns for poems					
	Write lost and found articles				1	
	Children will cut out pictures from an ad and write the ad		•			
	Find the five W's and write a feature story of their own					
	Develop a skit from a short story and use it as vehicle for a T.V. production					
	Role playing - operator - used Telezonia	Contact	: Michigan	Bell 1	Celephone	Co.
	99		_		• • ·	

UNIT TITLE:

89

COMMUNICATIONS

CONCEPTS BEHAVIORAL OBJECTIVES As a result of this unit, each child will be able to: Communication Skills (Cont.) Oral communication Role play a specific job in the newspaper: manage a newspaper, develop and compose copy, print a paper, or distribute the paper in a given simulated newspaper situation Participate in developing the dialogue for a T.V. production Five W's - who, what, when, where Write a concise effective ad and why identifying the five W's Write thank-you letters in braille Communicating by braille Science

(continued)

Lighting and its effects

Sound effects

Audio equipment

Describe the basic fundamentals of lighting

Read a weather map

List 2 problems of a hard-of-hearing person

List 2 ways we can help a hard-ofhearing person

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Visit and present skit at M.C.C. T.V. Studio (Macomb Community College) Write telegrams on forms obtained from Western Union Office	Writer Reporter Video-tape from either Royal Oak or Oakland County
Write stories in which the letters or the message SOS was important	
Write, print, and distribute a newspaper	
Use lighting effects in & T.V. production of a play	Filmstrip: Hard of Hearing Person from Society for the Deaf
101	

ERIC Full Base Provided by ERIC

90 ·

٠.

UNIT TITLE: COMMUNICATIONS (continue !) CONCEPTS BEHAVIORAL OBJECTIVES As a result of this unit, each child will be able to: Social Studies Theater as a form of entertainment. Describe the production problems when working on a play, relationships, etc. Function of communication media Describe the functions of theater in our society and other communications media List 5 ways or reasons people use the newspaper History of communications - before List 2 investors of communication telephones equipment with their inventions Inventors of communication equipment Math Adding and subtracting List or describe 2 problems which could arise from inaccurately accounting for Money or handling money Multiplication Demonstrate basic math skills Graphing Estimate the cost of advertisement Linear measurement Compute the difference between sale article and standard price Payroll department of article Measurements for scenery Compare and contrast prices of food Tickets - the producing and Explain stock market reports selling of 57

91

	METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
_		
	Brainstorm production problems	Producer of play
	Produce a play	Newspaperman
	· · · · · · · · · · · · · · · · · · ·	Actress
	Scan the newspaper	
_	Research communications media and inventors	`≈ 4
	τ.	· · · · ·
	Cut out ads and tally prices	Newspaperman
	Find from five to ten items advertised in the newspaper for under \$5.00	Bookkeeper
	Call newspaper for pricing formula	
	Write a menu using advertisements from food	
	Determine total cost of a day's menu	
· .		
	· · · ·	
Q	103	

UNIT TITLE:

CONCEPTS	BEHAVIORAL OBJECTIVES
Art	As a result of this unit, each child will be able to:
Costume design	Prepare a cartoon figure
Stage design Stage make-up	Design and construct simple set with props
a 	Design posters for advertisements Describe or explain the purpose of stage make-up and its effect
	Make a wood frame
	Identify as a group, three major functions of the payroll department
	Prepare the props for a T.V. skit
	· · · · · · · · · · · · · · · · · · ·
ERIC	104

104

N	ETHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
	· · · · · · · · · · · · · · · · · · ·	
	Students make wood frames - to hold clay and wax for tablets - quill pens, styli, inks and scrolls, to write their	Artist Costume designer
	newspaper articles on them	
	Students make wood blocks and relief printed designs and letters to use for	Make-up artist Robert McCloskey - Illustrating book
	printing	designs (Annual Property Control Propert
	\mathbb{T} ry out fountain pen and ink	
	Make design for wood block	
	Poets to work in quiet corner	
	Artists to work at easel in beret & cape	
	Book-binders to sew books together	
	Book-makers to run dittos off	
	Draw on slate	
	Trace stencil letters (old English)	
	Transfer letters (old English)	
	Try out straight pens with drawing ink (maybe decorative letters)	
	Examine type on typewriter for example of relief printing	
	· · · · · · · · · · · · · · · · · · ·	
	105	

UTIT TITLE: <u>C</u>

COMMUNICATIONS (continued)

MCEPTS	BEHAVIORAL OBJECTIVES		
Music	As a result of this unit, each child will be able to:		
. Selection of music for the play	Suggest music for a T.V.skit or program		
	Te ba		
Career/Self-Awareness			
Managing Producing a product	Fill out an application for a job of their own choosing related to a T.V. production		
Personnel People and their jobs pertaining to communications	List 8 jobs involved in T.V. production		
Hiring	Participate in a T.V. production		
	List 10 jobs related to the production and distribution of newspapers		
Recognizing emotions and attitudes in others	Given a specific situation, describe person or the way the people feel		
· · ·	·		

ER

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Make up a skit or T. V. program and suggest music Make a Who's Who of Music Book from clippings in a newspaper	Detroit Symphony (rehearsals) Music teacher
Brainstorming jobs in a newspaper, and different sections of the newspaper i Choose the sections they want to study and then write an original article	Actress Cameraman Special effects man
Three children were selected from the class to act as auditioners Discuss printers jobs	Reporters T.V. newscasters and weathermen
Discuss artists jobs	
Poets Book maker (Book binders) Advertiser	
Printers	
Salesman	
View or listen to a play, movie, T.V. program, record, or tape	

ERIC Full Task Provided by ERIC

I. NAME OF ACTIVITY

MAKING A NEWSPAPER

II. ACTIVITY FORMAT:

A. Tools and Materials

Typewriters Ditto masters

- B. Procedures for this activity (with helpful hints)
 - Decide on which departments will be included and jobs that will be created
 - 2. Have children apply for the jobs
 - 3. Teacher helps department heads to supervise their departments
 - 4. Set a deadline for publication
 - 5. Have students produce the paper and then distribute it

RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

The follow-up discussion should include ideas for creating more appeal among the readers, how repetition or creativity helped or hurt the various jobs, responsibility and the success of the total adventure.

Į

NAME	ADDRESS		
PHONE	HOW MANY	YEARS EDUCATION?	
		·	
	ENT		
(Chores at home			
CHECK BELOW THE QUALIFIED FOR	FIVE POSITIONS YOU WOULD M	OST LIKE TO HAVE AND FEEL YOU A	RE
Position	Duties	Qualifications	Salary
Publisher	Owns paper Promotes paper Interviews Pay employees Makes rules Leader of group	Good in all subjects Lots of knowledge Gets along with others Is fair, pleasant	
City Editor	Decides what goes into paper Makes decisions	Good in writing, English Reading, Social Science Good judgment Speed	
Sports Editor	Decides what goes into sports section makes decisions	Same as city editor - and knowledge of sports	
Women's Editor	Decides what goes into women's section Makes decisions	Same as city editor - and homemaking skills Science, Arts, Crafts	•
Special Writers	Responsible for daily article	Good in writing, English, reading-dependable, prompt	
Reporter	Finds the news Brings it back	Good in English, writing, reading, spelling, social science Fast - good memory Good personality Must know 5 W's and H	
Photographers	Finds the news Takes pictures and brings them back	Good in science, art, Math Speed	• • •



051

APPLICATION FOR EMPLOYMENT - NEWSPAPER (continued)

CHECK BELOW THE FIVE POSITIONS YOU WOULD MOST LIKE TO HAVE AND FEEL YOU ARE QUALIFIED FOR

Position	<u>Duties</u>	Qualifications Salary
Rewrite Man (or women)	Writes up reporters' stories, clearly, and correctly and in interesting way	English, Spelling, writing Speed - accuracy Proper sequence Can express main idea
Advertising Manager	Gets businessmen to advertise Helps choose good Advertisements	Good in English, Art Ability to persuade
Classified Ad Depar tment Clerks	Take information for ads Quotes prices	Good in math, English Reading, Spelling Accurate Pleasant
Bookkeepers	Pay bills Pay salaries	Good in math, accuracy Manual skills (Adding machines and

comptometer) Computers

99

I. NAME OF ACTIVITY

BUILD RUBBER STAMPS

II. ACTIVITY FORMAT:

A. Tools and Materials

Wood scraps	Ink pad	10 x 10 plexiglas sheet
Inner tubes	Brayer	Scissors
Elmer's glue	Ink	· · ·

B. Procedures for this activity (with helpful hints)

- Cut a simple shape (circle, clover) from the inner tube and glue it to a wood scrap. This is your stamp.
- 2. If the stamp is small the stamp pad may be used for inking the stamp. If it is large, the oil based ink may be placed on the plexiglas and spread with the brayer.
- 3. Letters can be cut from the inner tube and an entire alphabet be made for composing messages.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

The children learn that it is easier to print if duplicates of letters are made and more than one letter at a time printed. They also learn that the letter must be reversed on the block to print correctly on paper.



I. NAME OF ACTIVITY

PRINTS FROM PLASTIC

II. ACTIVITY FORMAT:

A. Tools and Materials

Thick, white, plastic meat trays Smock/old shirt Pencil Rubber brayer Newspaper

Paper - (wrapping, tissue, construction) Window glass Block printing ink (water soluable)

B. Procedures for this activity (with helpful hints)

- 1. Wash meat trays and cut off upturned edges.
- 2. Cut plastic to the size of print wanted.
- 3. Draw your design (simple, bold designs come out best).
- 4. Get ready to print. Set up assembly line as follows:
 - a. The piece of glass with ink and brayer.
 - b. One whole sheet of newspaper folded three times, for rolling the ink on the plastic print.
 - c. Several sheets of newspaper folded to make a pad for the actual printing.
- 5. Squeeze out 1/2" of ink on glass and spread with brayer.
- 6. Roll the ink on the design.
- 7. Carefully place the print, inked side down, on printing paper.
- 8. Press down all over (use fist or spoon).
- 9. Carefully lift plastic print and set aside to dry.
- 10. Frame or mount.

I. <u>NAME OF ACTIVITY</u>

WANT ADS FOR PONY EXPRESS RIDER

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

Reading text - 4th grade - Pony Express Rider Paper Pencil

B. Procedures for this activity (with helpful hints)

- 1. Discussion of the history and excitement of the Pony Express
- 2. Discuss qualification of Pony Express rider
- 3. Write a want ad for Pony Express rider as it might have appeared in a newspaper of 1868
- 4. Use this as a motivation to study want ad (help wanted) in the daily newspapers; discuss qualifications for jobs, how to answer a job want ad, etc.
- 5. Compute costs of mailing a letter via Pony Express with the costs of mailing a letter today - use a scale to determine ounces and then cost of mailing

(In 1860 the Pony Express carried mail at the rate of \$5.00 an ounce)

I. NAME OF ACTIVITY

INK MAKING

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

Charcoal Beet juice Blueberry juice

B. Procedures for this activity (with helpful hints)

Inks: Book suggested mixing with linseed oil - it tended to separate. I had better luck mixing with some Elmer's glue or cornstarch. Rubbed charcoal on sandpaper to grind it up.

Lemon juice for invisible ink. Write on lined paper with Q-tips. When dry it is invisible. Iron over paper to make words appear.

I. <u>NAME OF ACTIVITY</u>

SCROLLS - QUILL PENS

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

Dowels - up to 1" diameter. Cut into 6" lengths (or size you desire) Oil paints Shelf paper

B. Procedures for this activity (with helpful hints)

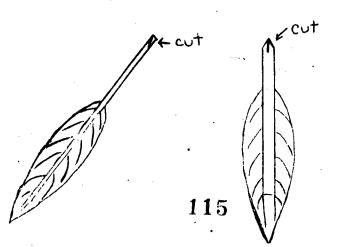
Cut dowels - write on shelf paper (scroll). Attach to two dowels thumb tacks. We decorated the wood dowels first with oil paint.

NOTE: According to what I read scroll was written in columns and was read from right to left - not top to bottom, i.e.

Some wrote with their quill pens (or straight pens using inksawe made). Some used "rub off" old English style stencil letters.

<u>QUILL PENS</u>: Used duck and chicken feathers (had much difficulty obtaining them. Was visiting in Wisconsin farm area and got them from a farmer - couldn't find any for sale in Detroit area.

Hold quill nib, at end, sideways and cut with manicure scissors. Then cut slit through middle.



I. NAME OF ACTIVITY

MAKING WAX AND CLAY TABLETS

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

Wood Wax Natural clay (fire) (like that used for adobe) Paint

- B. Procedures for this activity (with helpful hints)
 - 1. Cut wood about 12" lengths about 6" wide. Cut 4 sides about 1" thick to form sides and hold clay and wax. Nail on sides. Sand pieces before nailing. We painted them but not necessary.
 - a. Moisten clay and pack it in frame. While still damp write in it with stick or nail. Cut stick so it forms flat triangle. Other end can be used as eraser. Dries overnight. (Some of them tended to crack unless packed quite tightly.) These areas can be filled in. It was easier to read when we went over the indentations with charcoal or paint.
 - b. Wax tablets melt candles or use colorless wax with melted crayons - pour into frames. They tend to leak until wax in cracks starts to harden. When dry - write on them with stylus (we used large nails - blunt end can be used for eraser).
 - NOTE: I was given a suggestion which needed further explanations. To re-use wax tablets, put in oven at 165 degrees. This re-melts the wax. However, some mothers complained the wax leaked out all over their ovens.

116



I. NAME OF ACTIVITY

BLOCK PRINTING

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

Wood 2 x 4's Rubber inner tubes or yarn

- B. Procedures for this activity (with helpful hints)
 - Draw design cut out of rubber inner tube and paste on block - or paste two or three thicknesses of yarn on wooden block.
 - Then put paint on it, and repeat the design on large sheet of paper. Some used this as gift wrapping paper. Some made their initials - had to remember to put it on backwards.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

51.2

DAILY CHIT CHAT TELEVISION PRODUCTION

-Announcer: Would you like to visit a newspaper? Let's take a trip through Room 17's newspaper - The Daily Chit-Chat CAST - Diana - Hold up sign SCENE ONE -Cast - Terri Altizer Announcer: As we walk in, we see our switchboard operator, Miss Terri Altizer. She takes all incoming calls and connects callers with the proper person. SCENE TWO -Cast: Darren Calhoun, Cherie Juntikka, Mark Rakoczy Announcer: Next, we'll look in on our publisher, Mr. Darren Calhoun and his secretary, Miss Cherie Juntikka. Mr. Mark Rakoczy is applying for a job. SCENE THREE -Cast: Annette Mullas, Laura Phillips Announcer: Our advertising Manager, Miss Annette Mullas, is selling newspaper space to Miss Laura Phillips, president of J. L. Hudson's. The newspaper makes most of its money from advertising. SCENE FOUR -Cast: Darren Calhoun, Jimmy Collick, Susan Yirovec, Tom Kaiser, Announcer Shaw Gordon The Classified Ad Department is always busy. Many people put ads in the paper. Mr. Darren Calhoun is talking with customers. Miss Susan Yirovec and Mr. Jimmy Collick are typing up the ads and sending them to the Composing Room. SCENE FIVE -Cast: David Dernier, George Bastuba Announcer: Here we see Mr. George Bastuba, a clerk in the morgue. This is where copies of old newspapers are kept. Mr. David Dernier, the copy boy, is speaking with him. ••••• SCENE SIX -Cast: Becky Woods, Liz Worthen Announcer: The Bookkeeping Department handles all the money. They put money they receive in the bank and pay all the bills. They also make out the paychecks for the employees. Miss Becky Woods is the head bookkeeper. Miss Liz Worthen is a typist. SCENE SEVEN Cast: David Dernier, Mark Connelly, Todd Azarias, Mark Rakoczy, Joe Guarino Let's follow our reporters, Mr. Mark Connelly and Mr. Todd Azarias Announcer: and our photographers, Mr. Joe Guarino and Mr. Mark Rakoczy as they interview the famous Olympic swimming star, Mark Spitz.

118

E.

DAILY CHIT CHAT TELEVISION PRODUCTION (continued)

SCENE EIGHT -Cast: Paul Nation, Tom Flynn, Colleen Krog, Holly Jaye, Cherie Juntikka, Tom Barr, David Schumacher, Chris Bjornberg, Theresa Furlong Announcer: Here we see another interview. Reporter, Mr. Chris Bjornberg and Photographer, Miss Theresa Furlong are talking with Vietnam prisoners of war who have just come home.

.

SCENE NINE -

Announcer:

Cast: Mark Connelly, Todd Azarias, Chris Bjornberg, Joe Guarino, Mark Rakoczy, Theresa Furlong, Barb Hamby, David Dernier The reporters and photographers bring their stories and pictures back to the newspaper and give them to our rewrite woman, Miss Barb Hamby. Her job is to change the stories so they are interesting and clear. She corrects all mistakes.

> (Copy Boy - Take these to the City Editor and these to the Sports Editor)

SCENE TEN -Announcer

Cast: Ken McDonough, Diana Walker, David Dernier As we look in on our City Editor, Mr. Ken McDonough, he is dictating a letter to his secretary, Miss Diana Walker.

> (Copy Boy - Take these stories to linotype operator and the pictures to photoengraving)

SCENE ELEVEN -Cast: Pat Harper, David Dernier Announcer: Here is our Sports Editor, Mr. Pat Harper. He is selecting the best sports stories to go in today's paper.

> (Copy Boy - Take these stories to linotype operator and the pictures to photoengraving)

SCENE TWELVE - Cast: Beth DeWitt, Angela Pielack Now let's visit our Women's Editor, Miss Beth DeWitt. Her secretary, Announcer: Miss Angela Pielack is answering the phone.

SCENE THIRTEEN - Cast: Tom Barr, David Dernier Announcer: Our copy boy, Mr. David Dernier, is taking the pictures to the photoengraving foreman, Mr. Tom Barr. He will make metal plates from them.

• • • • • • • • • • • • •

(I'll get these over to the Composing room as soon as possible)

SCENE FOURTEEN - Cast: Billy McDonald, Tom Flynn Announcer: We're in the Composing Room now, watching Mr. Billy McDonald, the linotype operator. (I'm making metal letters for the press) Mr. McDonald then takes the metal slugs to Mr. Tom Flynn, the proof Announcer: reader. Mr. Flynn checks them carefully for any mistakes.

DAILY CHIT CHAT TELEVISION PRODUCTION (continued)

SCENE FOURTEEN - continued

Billy: (Here you are, Mr. Flynn. Check them over.) Tom: (You spelled prisoners incorrectly.)

<u>SCENE FIFTEEN</u> - Cast: Tom Flynn, David Schumacher Mr. Flynn then takes the metal slugs to Mr. David Schumacher, our Announcer: make up man. He arranges all the pictures and stories attractively for each page of the newspaper. This is called the galley.

.

.

SCENE SIXTEEN - Cast: Paul Nation, Mark Connelly, Chris Bjornberg Announcer: The galley is then made into a curved metal sheet to fit on the rollers in the press room. Then the newspaper is ready to roll. Mr. Paul Nation, our press foreman is setting up the press. His helpers are Mr. Chris Bjornberg and Mr. Mark Connelly.

Note: Hold up real newspaper SCENE SEVENTEEN - Cast: Kelly Gipson, Jimmy Collick Announcer: While we're waiting for the papers to be run off, let's look in on our Circulation Manager, Miss Kelly Gipson. She's responsible for getting the papers to the customers. She's talking to a new customer.

SCENE EIGHTEEN - Cast: Todd Azarias, Shaw Gordon, Jimmy Collick Now, let's see what's happening to our newspapers. After Mr. Nation Announcer: runs them through the press, they are taken on a conveyor belt to be loaded on a truck. Mr. Todd Azarias is loading the truck. Mr. Shaw Gordon, the driver, will deliver the papers to the newsboys.

.

SCENE NINETEEN - Cast: Jimmy Collick, Tom Kaiser Announcer: Finally, we see our newsboy, Jimmy Collick, delivering papers to his customers.

Announcer: Tomorrow, and every day, the employees of the Daily Chit-Chat will be working hard again to bring the news to your home.

..........

THIS WAS THE STORY OF THE DAILY CHIT-CHAT

SCENE TWENTY - Cast: Ken McDonough, Chris Bjornberg

COMMUNICATIONS

DAILY CHIT CHAT TELEVISION PRODUCTION (continued)

Announcer: This program has been brought to you by the Elaine Meyer Square Dance Studio. And now we close with a message from our sponsor.

Ken: Amaze your friends. Learn how to square dance.

Chris: Only \$10 for twelve easy lessons. Come and see us tomorrow at the Elaine Meyer Square Dance Studio.

110

Announcer:

4) 33 Thank you for watching. So long and have a happy day.

THE BIG-LITTIE QUESTIONS

An important tool for the clear thinker is the fact. Facts are statements which a reasonable person accepts as true. Usually facts can be proved. Once you have facts, you are in a better position to form opinions, make decisions, take action.

Facts aren't to be crammed into your head as a warehouse is stuffed with furniture. Facts are really the "raw material" of your thinking. They are not the end product. The important thing is to know how and where to find the facts.

How can you find the facts? Six little words unlock some big doors to facts and answers.

Try asking yourself these big-little questions:

111

WHO? WHEN? WHERE > HOW?

They help to develop ideas, present problems, ask for opinions, dig for answers. By learning to ask and answer, a clear thinker can explore many possibilities and perhaps come up with new approaches to old problems, new ideas for old procedures, new information on old subjects.

How do the big-little questions work? Very often big-little questions are answered in the lead of a news article. In the paragraph following the lead, the reader learns more specific information - answers to questions behind the big one.

(WASHINGTON) APTIL 14, 1913 - when (Coned more than sile million) who yesterday to the R. ... Central wh -- what Railroad to repair damage done) why (by Hurricane Agnes) The \$16,446,253,06 1000 The \$16,446,253,06 loan Was made under the emergency how Rail Facilities Restoration of how Rail Facilities Restoration Act totaling about \$24 million to four railroads hit by the lune 1972 disaster

Once the big-little questions are answered, some further questions that might be raised are: Who else was in the race? What were their finishing times? How many people saw the race? Did Dave Patrick break any records? What was his reaction to winning? What was the significance of the race? These questions and many others might be answered in the rest of the article. In this way, the reader gets the main facts first and many others next.

THE BIG-LITTLE QUESTIONS (continued)

Read this lead to find the main facts, and write in answers to the big-little questions.

June 14 - An American expedition has found what it believes to be the remains of Christopher Columbus's flagship, the Santa Marie. The wreck of the famed vessel was found off the coast of Hispaniola, a large island in the Caribbean Sea. Columbus's own log and documents of the period helped the archaeologists pinpoint the location.

WHO?	WHEN?
WHAT?	WHY?
WHERE ?	HOW ?

ERIC

ผู้สาวสาวสาวสาวสาว

APPLICATION FOR EMPLOYMENT - TELEVISION STUDIO

NAME	ADDLESS	· . · · .
PHONE	HOW MANY YEARS OF EDUCATION?	
WHAT ARE YOUR BEST SUBJECTS?		
WHAT DO YOU LIKE TO DO IN YOUR	SPARE TIME?	
WHAT ARE YOU ESPECIALLY GOOD A	r?	
LIST YOUR PREVIOUS EMPLOYMENT?		

Position

Duties

The leader hires

employees - finds

a company to pay for

the show in exhange

everyone - pays

for advertising

Producer

Writers

Director

<u>Assistant</u> Director

Actors

Write plays or skits or shows. Some write commercials. Instructs actors, cameramen, etc. Responsible for seeing that the show is done well. Sits in

the control room. Tells cameramen what to do. Tells sound men (with microphones) where to go

Stands in front of actors on stage and gives directions with gestures. Holds up cards with their parts written so they won't forget.

Learn parts. Obey directions of director and assistant director. Be willing to work long and hard at rehearsals. Be on time. Qualifications

Must understand people and be able to get along -Good in expressing himself (herself) - good in all subjects

Good imagination - good in creative writing, English, reading, social studies, spelling

Good actor - good in speech, English, reading, science (must understand how all the equipment works), social science - understanding and getting along with his group good leader

Good leader. Good in reading, English. Must be fast and well organized. Must be able to make himself understood without words.

Good in speech, English. Good imagination. Must be able to put themselves in the "shoes" of the character they're playing. Must be patient, able to take orders without complaint.



COMMUNICATIONS

APPLICATION FOR EMPLOYMENT - TELEVISION STUDIO (continued)

Position Duties Qualifications Carpenters Make scenery and Good in manual skills, math, props following directions, accuracy Painters Paint scenery Art, creativity, following Make backgrounds directions, math, accuracy, patience Fashion Plan costumes for Good in art, creativity, Experts actors. Make costumes. social science (history of Make decisions about clothing), science - kinds what looks best on of materials and how they're each actor. used. Manual skills. Artists Make drawings for Good in drawing - good plays and commercials. imagination, patience, Sometimes animated accuracy. cartoons. A112813 Cameramen Focuses camera on actors Good in science (operating and Sometimes for close-ups, understanding camera). Good in sometimes at a distance math (distance measuring). Usually several cameramen Listening skills: director Director chooses best tells him what to do. picture Stagehand In charge of stage Good in science, alert, good Electricians lighting. Many different listening skills (director kinds of lights (soft, tells him what lights to use strong, different colors) at different times). Speed. Propmen Put out scenery needed Good memory. Good attention. for skit. Change scenery Well organized. Speed. when needed. Soundman Has large microphones on Good in science (sound). Alert. poles which he moves Careful (michrophone mustn't show around as actors are up on camera). Speed. Good speaking. listening skills (director tells him where to move microphones).

THE FOLLOWING JOBS WE MIGHT NOT USE:

News Reporter

Writes up the important news. Rehearses (practices) reading it well.

Audioman

Sits in controls room and "adjusts" sound. Makes it louder or softer as necessary. Has tapes to play for sound effects, music, etc.

125

Good in social science (current events). Good in speech, English, reading. Neat appearance, pleasant.

Good listener. Good in science. Fast, alert.

APPLICATION FOR EMPLOYMENT - TELEVISION STUDIO (continued)

Position	Duties	Qualifications
<u>Movie</u> Cameraman	Goes outside and takes pictures of important news. Brings it back for news reporters.	Good in science, math, social studies. Fast, accurate.
<u>Film</u> <u>Editor</u>	Goes through news films and picks out best scenes. Cuts out what he doesn't want.	Good in social science. Must make fast and good decisions. Good in science. Must be fast and accurate.
Projectionist	Picks out slides and movies to show on TV.	Good judgment. Good in social studies. Good memory and organization.

115

ER

I. NAME OF ACTIVITY

SHADOW PUPPETS

II. ACTIVITY FORMAT:

A. Tools and Materials

Dark colored poster paper 12" sticks Glue Colored cellophane

B. Procedures for this activity (with helpful hints)

- 1. Cut out form from poster paper for puppet.
- Cut out features you want light to shine through with color (eyes, buttons, etc.).
- 3. Glue cellophane on back covering cut out features.
- Tape stick on back about 1/2 way up for handle.
 Set up screen. Shine light on it. Children
- stand/sit about 4 feet back from screen.
 6. Write plays, short stories, record, etc.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

SENDING MORSE CODE

II. ACTIVITY FORMAT:

A. Tools and Materials

Reading textbook - Open Highways - Grade 4

Batteri es	Bell
Wood	Light bulb
Buzzer	Wire tool rack

Telegraph Key from Instructional Materials Center

B. Procedures for this activity (with helpful hints)

- 1. Read SOS= in Open Highways Grade 4 p. 184.
- 2. Study pattern of dots and dashes making up Morse Code.
- 3. Send messages to classmates by writing out Morse Code.
- 4. Tap out longs and shorts to send messages by Morse Code.
- 5. Divide into small groups to devise and make some kind of transmitter which could be used to send Morse Code (bell, buzzer, light buib, flags, etc.).

I. NAME OF ACTIVITY

TWO ROOM HOOK-UP TELEGRAPH

II. ACTIVITY FORMAT:

A. Tools and Materials

Wood Telephone wire Dry cells or train transformer Screws

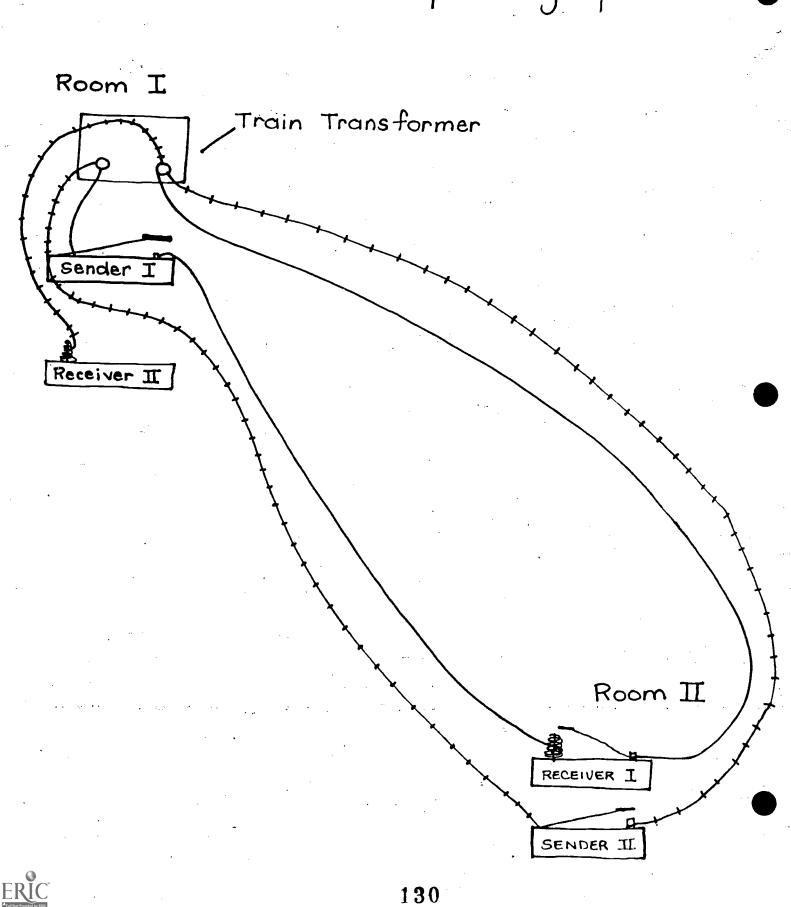
B. Procedures for this activity

See illustration

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



2 Room Hook-up Telegraph



3.7-1

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. <u>NAME OF ACTIVITY</u>

WRITING WITH PICTURES ·

II. ACTIVITY FORMAT:

A. Tools and Materials

ScissorsEncyclopediasColored paperLibrary books on communicationGlueColored paper

B. Procedures for this activity (with helpful hints)

- 1. Divide into small groups.
- 2. Choose form of communication for study, dramatization, and illustration; e.g. suggested topics
 - a. Smoke signals
 - b. Cave man picture writing
 - c. Egyptian hieroglyphics
 - d. African drums
 - e. Heliograph
 - f. Indian writing
 - g. Homing pigeon 2000 B.C.
 - h. Pony Express 1860
 - i. Invention of telegraph
 - j. Invention of telephone
 - k. Radio
 - 1. Television
 - m. Satellites

3. Have students dramatize their chosen form of communication.

4. Arrange individual pictures depicting each form of communication in chronological order on a bulletin board.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. NAME OF ACTIVITY

MAKING-UP A CODE SYSTEM

II. ACTIVITY FORMAT:

A. Tools and Materials

First Book of Code and Ciphers by Sam Epstein

Paper and pencil

- B. Procedures for this activity (with helpful hints)
 - 1. Discuss use of code during World War II and other wars. Discuss importance of code deciphers during wars.
 - 2. Have each child devise his own system of code whereby each letter of the alphabet is represented by some symbol.
 - 3. Have children send message to friend in their original code. See if friend can crack code by telling him certain key letter symbols.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

ERIC Full text Provided by ERIC

Abre

COMMUNICATIONS

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

MAKING FLAGS USED TO SEND MESSAGES AT SEA

II. ACTIVITY FORMAT:

A. Tools and Materials

Sending the Word by Walter Buehr, pp. 56-57

sample flags Colored paper alphabet flags Scissors Glue

B. Procedures for this activity (with helpful hints)

- 1. Show large chart illustrating the flag that represents each letter of the alphabet.
- 2. Have each child make a flag for one letter of the alphabet.
- 3. Mark letter on the flag so that it can be readily identified.
- 4. When entire flag alphabet is completed have children take turns sending messages to class with flags.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

COMMUNICATIONS

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

123

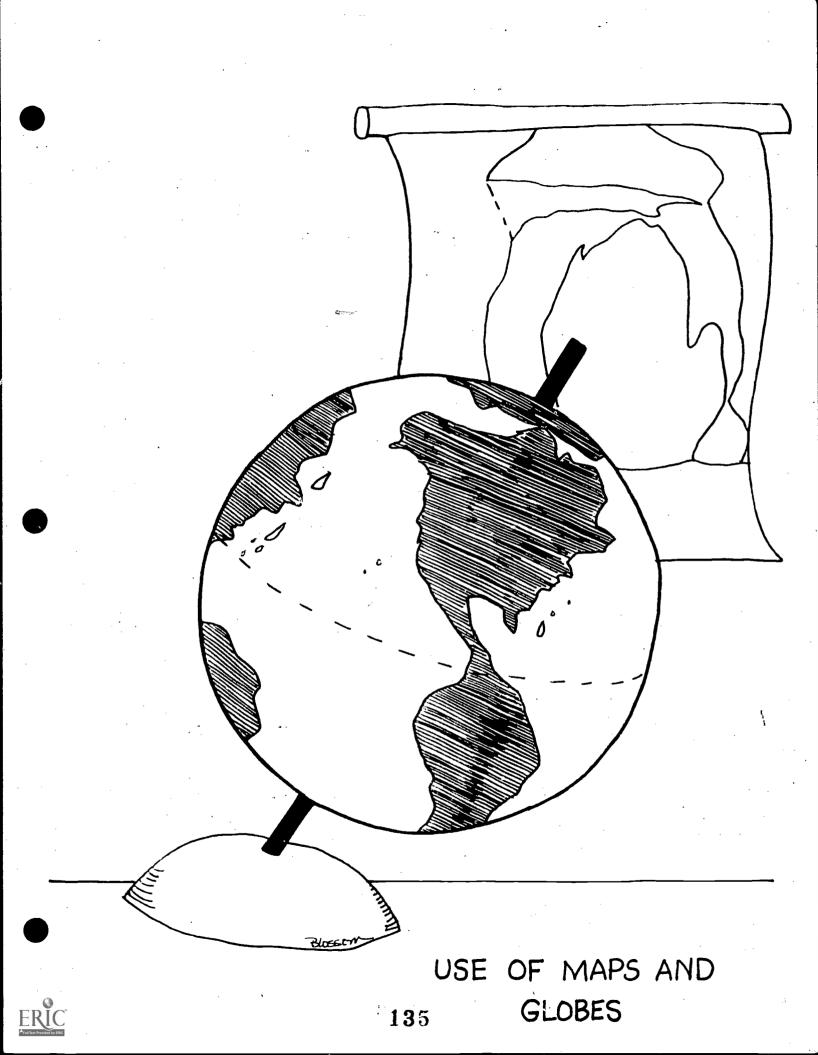
TELEPHONE ACTIVITIES - ANSWERING SERVICE

II. ACTIVITY FORMAT:

A. Tools and Materials

Telephone usage kit Guide in kit Tape Recorder - listening post

- B. Procedures for this activity (with helpful hints)
 - 1. Allow students to use stape recorder to establish and ask questions of Mrs. Beattie's Answering Service.
 - 2. Children ask questions of teacher on tape recorder.
 - 3. The next day the child will find my answer on the tape which he may listen to at the listening post in his free time.



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

USING MAPS AND GLOBES

GRADE LEVEL:

GENERAL OVERVIEW: Children should be aware of their place on this planet and what location they share with the rest of the world.

TEACHING/LEARNING RESOURCES:

3-4

1. Reference Materials:

Books:

How We Use Maps and Globes by Muriel Stanek A Map Is A Picture by Barbara Rinkoff The Social Sciences - Concepts and Values, Harcourt, Brace & World Maps Unfold the World - Part I and II (spirit masters), Milliken Publishers Related books from Oakland IMC on maps and globes

Films: Globe and Our Round Earth Reading Weather Maps Using Maps - Measuring Distances Reading Maps Climates Language of Maps Maps Are Fun

Filmstrips:

Reading Directions on Maps Language of Maps Reading Physical Maps Reading Political and Economic Maps

Charts: Reading Map Symbols

2. Field Trips:

Following maps to classmate's homes Walk through neighborhood City Hall County Planning

3. Human Resources:

City Planner Mailman - using maps on routes Teachers Adult aides Student aides



4. Activities:

Map Making Using Different Media Map puzzles Globes Relief Maps of U.S. Profile Maps

Role Playing

Jobs and responsibilities of map makers Taking a trip without use of maps Teacher made a map that was inaccurate. Children tried to find a location in the school following a map. Discussed why being accurate is a must.

See also "Royal Oak" unit

UNIT TITLE: USING MAPS AND GLOBES

CONCEPTS	BEHAVIORAL OBJECTIVES	
Social Studies	As a result of this unit, each child will be able to:	
Map Study	List and locate seven continents and two major oceans	
	Distinguish between city, county, state, country, continent	
	Distinguish between flat, relief and profile maps	
	Differentiate between longitude and latitude	
Science		
Climate (Seasonal change) Day - Night	Identify and describe 3 reasons for different climates Cite evidence for day and night	
Directions	Use a compass to help locate directions	
	Demonstrate where N., S., E., W. are in terms of classroom, home, school, state, world, etc. using maps and globes	



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
3	
Brainstorming	Coke Game - available through Coca-Cola Distributors
Research and group discussions	
On a world map label 7 continents and 2 major oceans	
Make collection of city, county, state, country, and continent maps	
Set of flat pictures showing map symbols and types of land forms used on maps	
Research and group discussions	Map makers (cartographers)
	Compass
Find directions by using a compass	
Make a compass with cork, pins and water (See Electricity and Magnetism Unit)	
av 190	

E

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Vocabulary development	· · · ·
Directions	Read and follow directions on a map
Describing	Describe climate of certain geographical areas
Creative writing	Give directions to a specific location
Math	
Measurement	Construct a map drawn to scale
	Compute distance
Time	Identify time zones
ERIC	140

129

٠. v

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
· · · · · · · · · · · · · · · · · · ·	
Research and individual writing assignments	Мар
"Oral presentations of reports on climates	0
Find a city by using index	
Find different routes to take to particular city (i.e., I-75)	
Map and globe activities	
Make a map for a treasure hunt	
Draw clocks showing times around the world	
. ,	
141	

ERIC.

UNIT TITLE: USING MAPS AND GLOBES (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Career/Self-Awareness	Define word: cartography
Managing	Plan and organize a map-making activity
Producing	Construct a map
Servicing	Relate 2 ways map making is important and how cartographers service society
	Make a list of 5 jobs that would involve using or making maps
Planning and decision making	Give an example of how a person's knowl- edge of his skills and interests can influence his planning for the future
	incluence his plaining for the future

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	Cartographer
Map and globe activities Topographical Flat Interview city and county planners,	City planner Surveyor National Geographic
cartographer, surveyor, mailman Plan and organize a map-making activity	



I. NAME OF ACTIVITY

"POT OF GOLD"

II. ACTIVITY FORMAT:

A. Tools and Materials

Pot of gold Neighborhood maps Directions to the "pot of gold"

B. Procedures for this activity

Hide the "pot of gold" in the neighborhood. Have students look for it without a map. After - repeat the experiment using a map (at a different location)

đ۵

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

ENLARGING MAPS AND OBJECTS

II. ACTIVITY FORMAT:

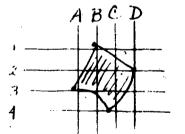
A. Tools and Materials

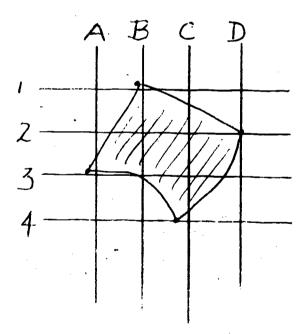
Graph paper Chalkboard

B. Procedures for this activity

Draw an object and overlay it with a grid By selecting points on the grid, copy the object on another grid system that is larger or smaller Emphasize size, accuracy and measurement

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





С., j



I. NAME OF ACTIVITY

GLOBES

II. ACTIVITY FORMAT:

A. Tools and Materials

Papier-mache	Balloon	Two strings
Paint	Scissors	Glue
Maps	Brushes	

B. Human Aides and Resources

Art teacher

C. Procedures for this activity (with helpful hints)

Make a wad of paper Cover with papier-mache Let dry Paint blue Cut out continents from maps and pin string for hanging Glue continents on map Hang with additional string

145

÷,

1

	DS ON ACTIV	ITY (STUDENT PERFORM	ED)
I.	NAME OF A	CTIVITY	
	MAP PUZZI	ES	
II.	ACTIVITY	FORMAT:	
	Α.	Tools and Materials	
		Dremel saw Shellac Maps - flat	l/4 inch plywood Elmer's glue Paint Paint brushes
•	Β.	Human Aides and Res Adults and parents	ources
	С.		activity (with helpful hints)
	· ·	Shellac maps apart Shellac maps Team children in two Paint back of puzzle Shellac again	maps on 1/4" plywood - tempered masonite o's to cut out maps into puzzles es - color code to check pieces and put in coded box
III.	RESULTS OF	THIS ACTIVITY (AFTE	R IMPLEMENTATION)

147

136

preferred

I. <u>NAME OF ACTIVITY</u>

MAP MAKING USING DIFFERENT MEDIA

II. ACTIVITY FORMAT:

A. Tools and Materials

Brushes	Clay	Glue
Scissors	Paint	Tissue
Oak tag	Seed s	

B. Procedures for this activity (with helpful hints)

148

Use oak tag for the map's backing Design a map key Outline the map Fill in areas with many materials (clay, seeds, tissue paper, etc.)

USING MAPS AND GLOBES

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

RELIEF MAP OF UNITED STATES

II. ACTIVITY FORMAT:

A. Tools and Materials

Opaque projector Map of United States Bristol board Cornstarch

Non-iodized table salt Food coloring Pencil

B. Resources

Relief map of United States

- C. Procedures for this activity (with helpful hints)
 - 1. Trace map of United States on large sheet of bristol board.
 - 2. Make Magic Modeling Goop -

MAGIC MODELING GOOP

2 cups table salt 2/3 cup water 1 cup cornstarch (loose) 1/2 cup water

Mix salt and 2/3 cup water in saucepan, stirring until mixture is well heated, three to four minutes. Remove from heat and add constarch which has been mixed with 1/2 cup cold water. Stir quickly. Mixture should be consistency of stiff dough. If mixture does not thicken, place over low heat and stir, about one minute, until it forms a smooth pliable mass. Leave the mix a natural white, or divide into portions and add regular food coloring until desired brilliance is achieved. Modeled objects may also be painted or decorated when dry to give surface color. Mix can be kept indefinitely if wrapped in clear plastic wrap or foil. Makes 3/4 pounds. No refrigeration is necessary.

3. Color, using food coloring, and place on map to illustrate the elevation areas of United States.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

ERIC Pruit Text Provided By ERIC 149

I. <u>NAME OF ACTIVITY</u>

Profile Map showing businesses on Eleven Mile Road within Longfellow School District using 3 inches for each block.

II. ACTIVITY FORMAT:

A. Tools and Materials

Large white paper Pencil Marking pencil Ruler Yardstick Map of Royal Oak Black construction paper

B. Resources

Map of Royal Oak

- C. Procedures for this activity
 - 1. Draw a scaled map of Eleven Mile Road and intersecting streets.
 - 2. Using black construction paper make pictures of businesses. Paste in appropriate place on map.
 - 3. Discuss role of employees in these establishments.

I. <u>NAME_OF_ACTIVITY</u>

<u>. 1</u>4

PRODUCT MAP OF MICHIGAN

II. ACTIVITY FORMAT:

A. Tools and Materials

Large white paper Opaque projector Map of Michigan Magazines for pictures Michigan reference book

Crayons Pencils Scissors Marking pencil

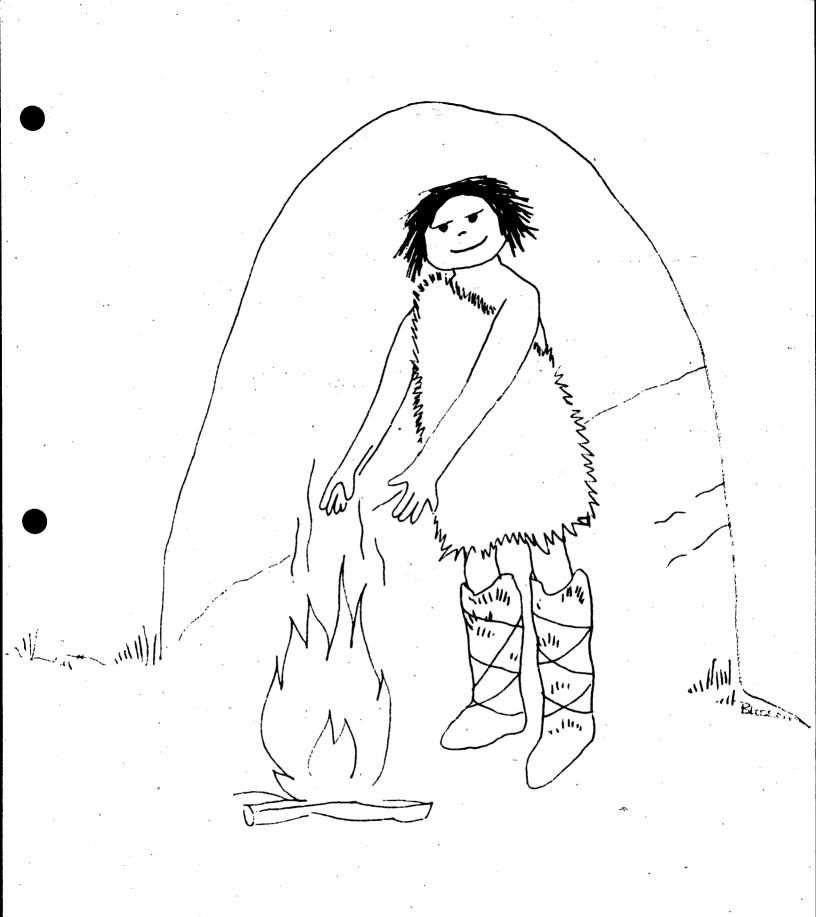
B. Resources

Exploring Michigan by Delphine Newcomb.

C. Procedures for this activity

- 1. Using opaque projector, trace large map of Michigan on white paper.
- 2. Cut pictures of produce raised and products manufactured in Michigan and paste on map.

140



PREHISTORIC MAN





SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

PREHISTORIC MAN

GRADE LEVEL: 3-4

<u>GENERAL OVERVIEW</u>: Man is a social animal. This unit is designed to turn back the calendar to show man's beginnings.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials</u>:

Books:	<u>Fire Hunter</u> by Jim Kjelgaard	•
	How and Why Wonder Book of Caves	to Skyscrapers

Films: Ancient Egyptian (27 min) Ancient Mesopotamia (11 min) Ancient World Inheritance (11 min) Cave Dwellers of the Old Stone Age (18 min)

Filmstrips:

Houses of Long Ago New Stone Age Old Stone Age River Cultures: Mesopotamia

Maps: Old Worlds

2. Field Trips:

Ann Arbor - Museum of Natural History Archaeology Museum Detroit Art Institute

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

Teachers Speech development Speech therapist

4. Activities:

Gathering roots, grubs Hunting small game Spear fishing Making tools Building shelters

153

UNIT TITLE: PREHISTORIC MAN

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	
Tribes Locations of digs and their ramifica- tions on movement Typical prehistoric day, religion and natural phenomena, family units, tribes, communication, movement, leaderships, government	List reasons for a tribe moving from area to area Take part in role playing a typical day in the life of a prehistoric man Predict the religious characteristics of the people based on scientific phenomena Describe methods of prehistoric communication Explain how leaderships were developed among families and tribes Make tools similar to those used by a caveman
	Indicate on a map where primitive remains have been found Name the continents of above Make a picture of a land bridge and describe how man may have used these in his migrations Plot a map on graph paper to scale
Math	
Tallying	Tell the time eras of ancient primitives (i.e. stone age, ice age) and give simple descriptions of each
Measurement	Measure object in terms of hands, paces, and sticks, with relative accuracy
	Count objects by tallying
	List 10 w ays we measure or use measur eme nt
an a	List 5 major discoveries of primitives (i.e. fire, tools, weapons, farming)
RIC	154

METHOD OF IMPLEMENTATION

View: movies, filmstrips

Teacher read Fire Hunter

Role play after researching

Field trips to Ann Arbor

Field trips to Detroit Art Institute

Research and report

Make drawings and label time eras and discoveries

.

155

RESOURCE PEOPLE & MATERIALS

Resource person from Art Institute

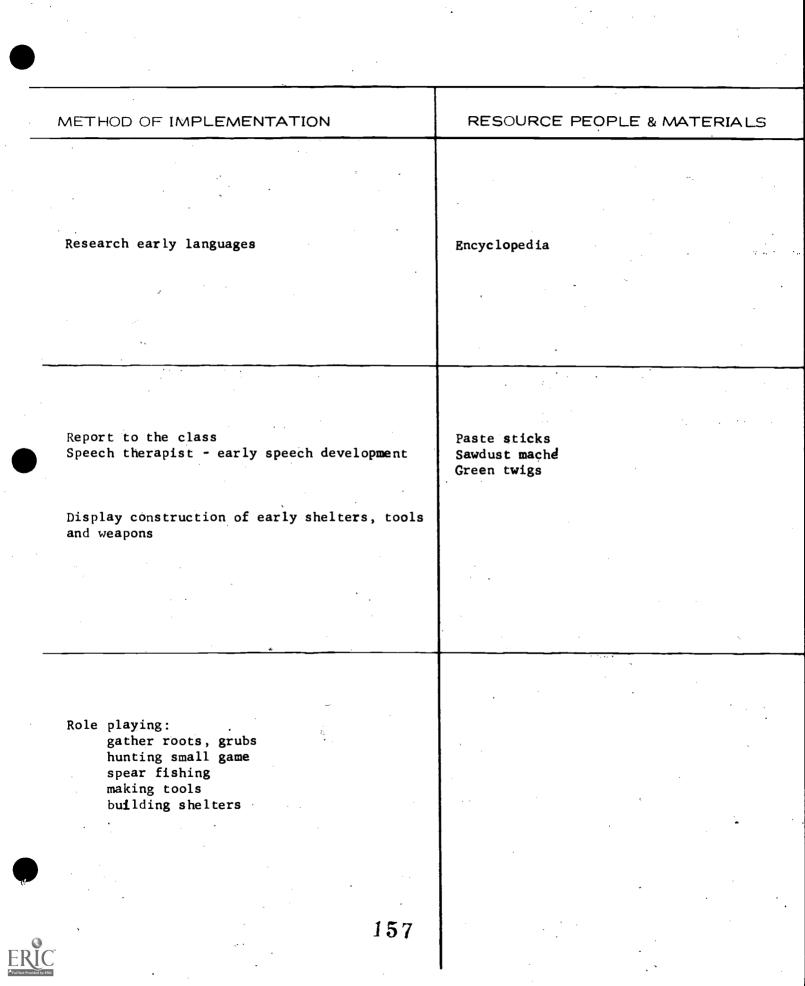
Parent drivers

.*

UNIT TITLE: <u>PREHISTORIC MAN</u> (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Art	
Construction	Make pictures of possible early language
	Make a picture calendar of prehistoric occurrences or discoveries
Communication Skills	
Development of early written ¹ anguage	List 5 uses of fire Scientifically define fire List the seasons and 3 characteristics of each State 3 problems and assets that the weather provides Deduce why man could not build more sophisticated
	forms of shelter Make with the student's committee a prehistoric display containing 2 tools, 1 weapon, and 1 form of shelter
. *	
Career/Self-Awareness	
Job functions of prehistoric man Production Management of a prehistoric community (tribe) Awareness of other people's activities	Identify the job roles of gatherers, hunters, food preparers, warriors, builders, leaders Make prehistoric products Identify the planning, organizing and controlling management functions of a prehistoric tribe Describe 3 situations in which people's activities provide information about their characteristics
A:	

EDL



I. NAME OF ACTIVITY

SHELTER CONSTRUCTION

II. ACTIVITY FORMAT:

your and the

A. Tools and Materials

Papier mache Sticks Stones Dirt Glue

Cardboard Chicken wire Clay Grass String

B. Procedures for this activity (with helpful hints)

Using the materials listed, the children can construct the various kinds of structures used by primitive man including caves, lean-tos, pit homes, huts, and sod homes. A single large structure could be constructed and later used for cave drawings and role playing. Refrigerator boxes are great.

158

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

IANDS	0Ň	ACTIVITY	(STUDENT	PERFORMED)	1
			() L () D MILL		ι.

I. <u>NAME OF ACTIVITY</u>

TOOL MAKING

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

Rocks Heavy sticks String or twine Basket weaving materials Clay

B. Procedures for this activity (with helpful hints)

After a discussion of primitive tools, make some.

Bowls Hammers Spears Spoons Baskets

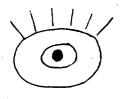
I. <u>NAME OF ACTIVITY</u>

COMMUNICATION

II. ACTIVITY FORMAT:

Give the children an opportunity to draw the things that would be found in a prehistoric environment.

Demonstrate how man can communicate only by drawings or pictures (i.e. modern)



Ι

SEE

YOU

1.1

160

I. NAME OF ACTIVITY

AN ANCIENT CALENDAR

II. ACTIVITY FORMAT:

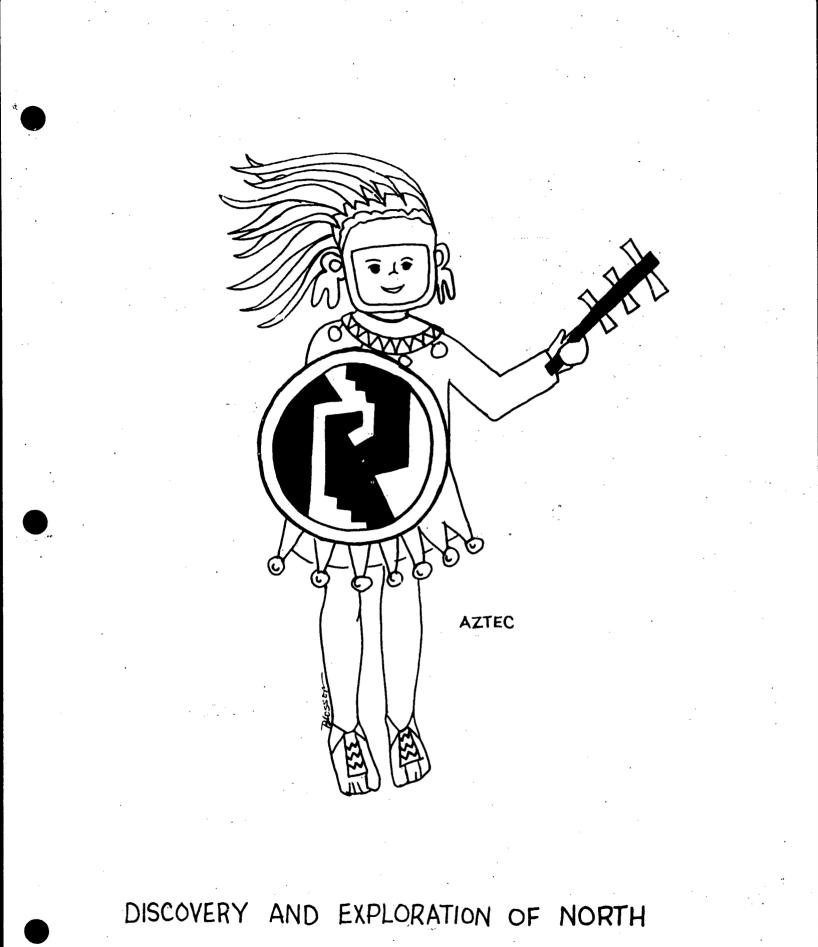
A. Tools and Materials

Paper Writing Materials

B. Procedures for this activity (with helpful hints)

161

Make a time-line chart showing the various periods of prehistoric history and the flora and fauna of those periods. Man's development can also be traced on the chart.



AND SOUTH AMERICA

162

ERIC

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

GOVERNMENT: DISCOVERY AND EXPLORATION OF NORTH AND SOUTH AMERICA

GRADE LEVEL:

GENERAL OVERVIEW: Children identify with heroes. This unit is developed to build an understanding of how and by whom North and South America were opened to white man. In order to understand the interactions between groups and individuals it is important to study the Indian kingdoms: Aztecs, Mayans and Incas of Central and South America and the interaction between them and the Spanish conquistadores.

TEACHING/LEARNING RESOURCES:

3-4

- 1. Reference Materials:
 - Books:
 - The Mayans The Aztecs The Horse in the New World Indian Arts and Crafts Building Center Follett Publishers: Explorers - booklets Pockets on Exploration, Discovery
 - ★ The Social Sciences: Concepts and Values Level 3 -Harcourt, Brace & World, pp.126-138, 139-145, 151-157

Films:

Age of Discovery: English, French and Dutch Exploration Age of Discovery: Spain and Portugal Canada's History: Colony to Commonwealth Discovery and Exploration French Explorations in the New World Story of Christopher Columbus The Incas The Viking: Life and Conquests American Indians Before European Settlement

Filmstrips:

Marco Polo Age of Exploration Balboa John Cabot Coronado Cortes Samuel Champlain DeSoto Story of Hernando DeSoto Story of Christopher Columbus Discovery of America (R)

Francis Drake Ponce de Leon Early Explorers of North America Henry Hudson Ferdinand Magellan Story of Father Marquette Hawaii: Before the White Man (R) Hawaii: Discovery and Development. Exploring of America (R)

Realia: Castanets Guitar

2. Field Trips:

Detroit Historical Museum Cranbrook Science Museum

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

Mexican Consulate Indian lore expert Parents

4. Activities:

Making Aztec Prints Interviewing People from Central-South America Make Indian head ornaments Make map of "lands claimed by North America" Role play first encounter between Algonquin Indians and the Spanish/Pilgrims



UNIT TITLE: GOVERNMENT: DISCOVERY AND EXT	PLORATION OF NORTH AND SOUTH AMERICA
CONCEPTS	BEHAVIORAL OBJECTIVES
<u>Social Studies</u>	As a re s ult of this unit, each child will be able to:
Explorers of North & South America Different cultural traits of Indians, settlers - English and Spaniards Indian stereotype Government or structure of management of Aztecs	Answer 70% or more on a teacher made test about the Explorers (by 60% of the class) Name 3 of the main Indian cultures encountered by the Spaniards List 2 stereotypes of Indians which have caused misunderstandings Describe the system of management that made the Aztec civilization function
Communication Skills Words adopted into American English language from: Indian Dutch French Spanish Swedish Research and write a report	Find 2 or more words from the following languages used in our language: Indian Dutch French Spanish Swedish Algonquin Indian



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Show movies listed	Movies
Have child ren view the listed filmstrips related to their explorer/ discoverer/ Indian with partner	Filmstrips Detroit Historical Museum
Class discussion to identify: Problems of conquerors	Cranbrook Science Museum
Problems of Indians Problems of Settlers Adaptation of cultures Collect, display, construct realia-type items from the various cultures Each pair will make a display and written report	Visit Mexican Consulate
Share their above work with other rooms in the school	
P r epa r e menus for one Spanish and an Indian mea l after researching Investigate and assemble app ropri ate	Indian lore expert Mexican Consulate
costumes Make and serve meals	
-	

65

·

CONCEPTS		BEHAVIORAL OBJECTIVES
		As a result of this unit, each child will be able to:
Music		
Listen Beat Drum		Identify Spanish guitar music Recognize and repeat 2 typical drum beat patterns of the Indian
*		
· · · · · · · · · · · · · · · · · · ·	· · ·	
Art		
Display		Name 5 items that the Indians adapted into their culture from the Spaniards
Aztec print Weave Indian design		Participate in a class discussion to separate fact from fiction in Indian culture (e.g. ownership - "Indian giver")
		Construct a display of his explorer/ discoverer, Indian group
	•	Write a report of his explorer/ discoverer, Indian group to go with his display
u		
and the second		
· · · · · · · · · · · · · · · · · · ·	• .	
0		
ERIC		167

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Listen to music of the Indians and	Musician
Spanish	Records
	Тарев
	Parents

Make maps of lands claimed by North America Do the Word search puzzle on discoverers/explorers Make Aztec prints

Field trip to Art Institute

Art teacher

Person who has visited that area



UNIT TITLE: GOVERNMENT: DISCOVERY AND EXPLORATION OF NORTH AND SOUTH AMERICA

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit each child will be able to:
Career/Self-Awareness	
People and their job roles	Identify 2 techniques related to farming learned by the settler from the Indians
Tools	Identify 2 tools adopted by the Indians from the Spaniards
	Identify 2 tools adopted by the settlers from the Indians
Functions	Identify 2 job roles of the male and female Indians and the reason for both
Characteristics	
Products	Identify 2 foods typical of Spaniards and Indians
Managing	
A wareness of other people' s activities	Describe 3 situations in which people's activities provide information about their characteristics
· .	
, ,s	÷

15**8**

•

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
Research and make drawings	
Take teacher-made test	
	м М
Research activities of different Indian tribes and Spaniards	
F.	

. . -



ĿS



EXPLORERS OF NORTH AND SOUTH AMERICA

The Vikings Eric the Red Leif Ericson

The Mogols Marco Polo

Portugal

Prince Henry the Navigator King John Vasco da Gama Bartholomeu Dias

Spain

Christopher Columbus Ferdinand Magellan Francisco Pizzaro Ponce de Leon Amerigo Vespucc**i**

Italy

Giovanni da Verrazano Hernando Cortes Hernando de Soto Francisco Coronado Vasco de Balboa

France

Robert de La Salle Jacques Cartier Pere Marquette Samuel de Champlain Joliet

Holland Henry Hudson

England

John Cabot Henry Hudson Sir Francis Drakę Martin Frobisher

Indian	Civiliza	lti	0 ns
Ma	ayan		
Ir	าตล		
Az	tec		•
A]	gonquin		Sq ant o

ERIC Full Best Provided by ERIC

GOVERNMENT

FIND ALL THE WORDS YOU CAN

		_			<u> </u>					
D	Ι	S	С	0	۷	E	R	Ε	R	S
0	Ň	0	T	F	0	S	S	I	Ĺ	E
C .	S	0	म	F	I	С	E	R	A	R
K	I	R	T	I	N	A	L	E	A	Ρ
A	D	R	I	С	H	L	A	C	Ţ	E
Т	N	0	м	I	N	A	T	I	C	Ň
H	C	A	C	A	0	Т	0	P	Ρ	T
S	I	D	£	L	0	0	M	E	A	I
Т	0	E	S	D	K	R	A	K	E	N
A	H	0	Y	R	A	Ρ	H	l	В	E
R	I	B	A	L.	Ρ	L	A	T	E	R
0	T	L	R	A	M	Е	Ŵ	E	A	К
H	U	R	D	Ľ	E	A	K	A	N	D

Circle on group of letters which make a word. The word can be found going forward, up and down or diagonally.



172

I. <u>NAME OF ACTIVITY</u>

MAKING AZTEC PRINTS

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

Β.

A. Tools and Materials

Discarded grocery sacks Fluorescent tempera paint Black, white paint Soaking tubs, sinks, etc.

Procedures for this activity (with helpful hints)

To people in a predominately Indian-American community these designs had a very special meaning. Motifs were researched from Indian bark paintings and put on "recycled" paper bags.

- 1. To obtain a color and texture similar to real bark, bags were soaked in water, wrung dry, then brushed with black watercolor.
- 2. While still wet, diluted white tempera was brushed over the black.
- 3. Designs were painted with fluorescent tempera, then outlined with black markers. Where ethnic backgrounds are too mixed to suggest an art project, relate paintings to community industries or important events.



NAME

Exploring the New World and Exploring our Country

Here is a short story about Christopher Columbus. Circle the word in each parenthesis which makes the story correct.

When Christopher Columbus was a boy, he lived in the city of (Genoa, Venice, Rome), Italy. Columbus liked to go to the harbor and watch ships unload silks, spices, and jewels which had come all the way from China and (Africa, the Indies, North America). They had come partly by land and partly by sea. This trip was long and dangerous.

Columbus spent many hours thinking about a cheaper and easier way to get to India, China, and the Spice Islands. When he was a young man, he went to Lisbon, (Portugal, France, Spain). There his brother Bartholomew sold (maps, groceries, boats) needed by sailors. Columbus studied many maps. We think that he even got to see a globe.

When Columbus lived, many people thought the world was (round, square, flat). Columbus thought it was round. "If it is round," said he, "I can reach the Indies by sailing (north, west, east)." He decided to try. The king of (Italy, France, Portugal) would not help him, so he went to Spain. Queen Isabella of Spain finally agreed to let him have (three, five, seven) ships and necessary equipment.

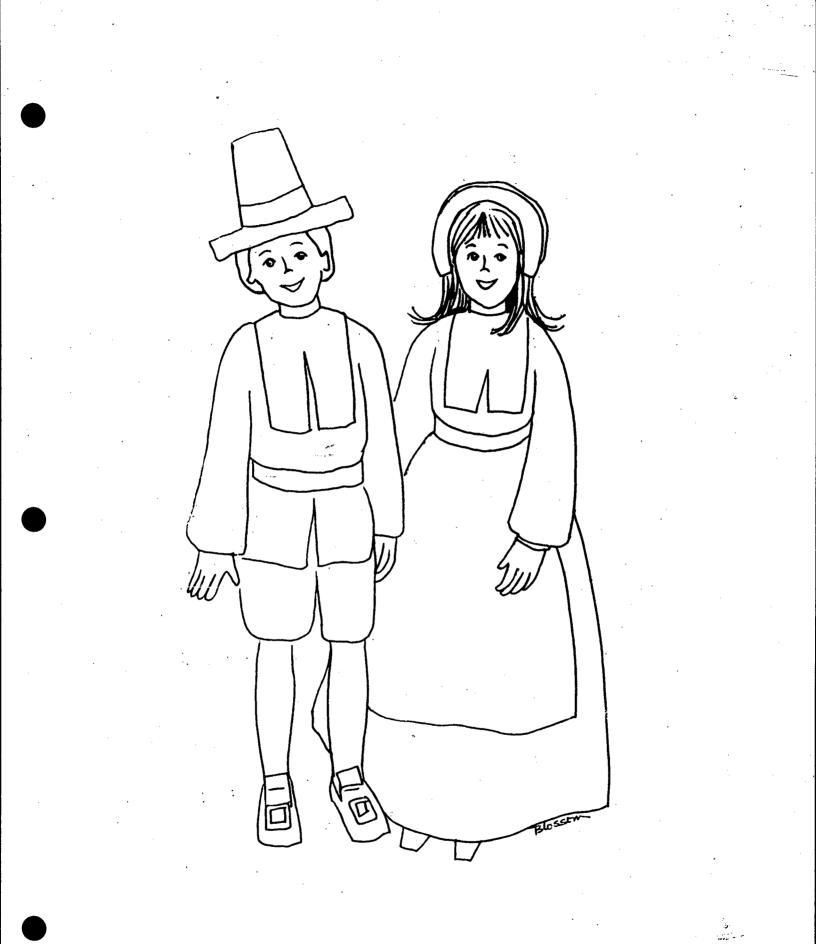
One morning at sunrise, Columbus said farewell to his son and climbed aboard the ship (Santa Maria, Nina, Pinta). Columbus then sailed west across the (Indian, Atlantic, Pacific) Ocean and landed on the island of San Salvador on October 12, (1492, 1519, 1607). He had not reached the Indies, but he had discovered (China, Africa, America). The people he found there he called (Africans, Americans, Indians). Columbus made three more trips to find India, China, and the Spice Islands, but failed. We honor him, however, because he discovered the New World.



COVERNMENT

	Match the following names with what they did. Write the numbers on the blank spaces to the right.	
1. 2.	Cabot 5. Cartier 7. Loss Busie	
3.	Columbus 5. Cartier 7. Leif Ericson	
1.	I discovered America for Spain in 1492.	
2.	I discovered the Mississippi River. An old time automobile	
	was named after me.	
3.	I was the leader of the first expedition to sail around the world.	
4.	I explored parts of Canada for France. The first letter of my name	
	is the same as that of the discoverer of America.	
5.	I was a Norseman who came to America before Columbus did.	<u></u> -
6.	I was the French priest who explored North America with the fur	
	trader, Joliet.	
7.	I explored parts of North America for England. My first name is	
	John.	
1. 2. 3.	Hudson 4. Ponce de Leon 6. Champlain Amerigo Vespucci 5. Coronado 7. de La Salle Vasco da Gama	
1.	I discovered Florida for Spain. Notice that my name has three parts	
2.	I explored parts of North America for the Dutch. An old time auto-	
	mobile was named after me.	
3.	I claimed the land drained by the Mississippi River for France.	
4.	America was named after me. Look at the first part of my name and	
	notice the likeness.	
5.	I explored the Southwest for Spain. If you would change two letters	
	in my name it would be Colorado.	
6.	I am a Portuguese sea captain who reached India by sailing around	
	Africa.	
7.	I established a permanent French colony at Quebec. If you would	• • • •
EDIC	look at a map of New York State, you would find a lake that was	
Full Text Provided by ERIC	175	

175



COLONIAL AMERICA



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

COLONIAL AMERICA

GRADE LEVEL: 3-4

GENERAL OVERVIEW:

This unit was written to give a general overview of colonial life: homes, customs and occupations. Students compared this with the present way of life. Children are always intrigued by their American Heritage. By taking a look at a restored village, they are better able to visualize the past. Williamsburg, Virginia provided not only an historical background but also an insight to a working community. *Good for school-wide unit.

TEACHING/LEARNING RESOURCES:

1. Reference Materials:

Books:

Children of the New Forest Little House in the Big Woods - Wilder First Book of Early Settlers - Rich, Louise Frontier Living - Tunis, Edwins, World Publishing Co., New York Colonial Craftsman - Tunis, Edwins, World Publishing Co., New York Colonial Living - Tunis, Edwins, World Publishing Co., New York Colonial America - Fisher, Margaret Colonial Days - Gordy, Wilbur A.B.C. Book of Early America - E. Sloane, Doubleday, New York Adventures In Williamsburg - C. Seghers II & J.J. Walket <u>Colonial America Craftsmen</u> (Series), L. Fisher - Franklin Watts, N.Y. Let's Go To Colonial Williamsburg - M. J. Barreson, Putnam's Son, N.Y. The City of Once Upon A Time - G. Waring The Silver Mace, A Story of Williamsburg - M. & M. Petersham Williamsburg Art of Cookery - Instructional Materials Center If you Lived in Colonial Times (paperback - Scholastic Books) Films: Colonial Children Colonial Life in New England Early Settlers of New England (Salem Puritan Family of New England The Light Here Kindled (Pilgrims) The Jamestown Colony Plymouth Colony: The First Year Colonial America in the 18th Century Colonial Birthday



Records: Pilgrim's First Thanksgiving

Filmstrips:

Pilgrims, Puritans English Background & Voyage to the New World (R) 1st Year in the New World Massachusetts Bay Squanto & The First Thanksgiving (R) Story of Thanksgiving Why We Have Thanksgiving Early Settlers of New England Cooking in Colonial Days Plantation Life in Colonial Virginia Craftsman of Colonial Virginia Colonists are Freedom Living Homespun Linen Plantations Statesmen of Colonial Virginia Greenfield Village Life in the Early American Colonies

178

Pictures:

Colonial America Historic Williamsburg

Realia: (available from I.M.C.) apple parer butter churn and mold candle mold flat iron iron ladle soap stone corn husk doll potato masher vegetable slicer

loom large wooden bowl and paddle candle snuffer page from grocery ledger iron fireplace toaster corn broom

5

Slides: Craftsmen of Colonial Virginia Visit to Colonial Williamsburg Greenfield Village

2. Field Trips:

Greenfield Village SEOVEC Edison Institute Upland Hills Farm Detroit Historical Museum Pioneer Park Human Resources:

ġ.

Parents Guide at Greenfield Village Baker Homemaker Weaver or clothing manufacturer People from Historical Society Nurse - School Electrician

4. Activities:

Role playing - dramatization of mans fight for freedom Make autobiographies Make hornbook Loom making Trading day Dipping Candles Colonial Cooking - Gingerbread cookies Weaving baskets Mural - Williamsburg 18th Century Crafts Miller School Colonial Hats Making Soap (old time recipe) Making paper from pulp Sled - early American Spool knitting Boot jacks Stilts Dolls (Pioneer) Popcorn Made vegetable soup Made corn bread Made butter Molded candles Preparing applesauce Model of Colonial American village Flags of colonial period Map of 13 original colonies

179

UNIT TITLE: COLONIAL AMERICA

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	
History Colonial The working community past and present	Describe the political turmoil the colonies were involved in with England Describe several characteristics of home, school, and community life of the 18th Century Describe colonial America (people and settlement) Explain the first form of government Explain colonial living conditions State five areas in which our present day life differs from colonial life Draw a picture of pioneer settlement and modern city
·	Write a description of pioneer life
Music	
18th Century	Identify the music characteristics of the 18th Century Sing songs which reflect pioneer feelings (ex. "Dry Bones")
5	
	180

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Role playing experiences Dramatization about man's involvement in his struggle for freedom Listening to pioneer stories Making up stories about Colonial times,	Speaker and film - Detroit Historical Museum Senior citizen
including Indians and Pilgrims Play on early America Making booklets related to various areas Re-inactment of colonial schoolday Prepare one of four different rooms, the way	
in which colonial people did Split colonies into three groups - North, Middle, South	รมายความครายความครายความคราย 1 1
Choral verses Dances (ex. square dance or reel from early times)	Folk singer
Listen to music of 18th Century	
181	

E

COLONIAL AMERICA (continued) UNIT TITLE: CONCEPTS BEHAVIORAL OBJECTIVES As a result of this unit, each child will be able to: Art 18th Century Colonial design Participate in crafts typical of this time period Make decorative items Design a bulletin board showing how a town is restored Describe what is meant by a restored town Make at least 2 examples of crafts typical of Williamsburg's working community Make murals of Colonial America Math Time Compare travel time in Colonial and Computing (by subtracting) modern times Monetary system Compute time between certain events Measurement and the present Linear measure Identify examples of money used in the 18th Century and equate it to the value of today's monetary system Measure with measuring spoons and cups, and use the oven Measure in candle making activities Participate in the making of looms and hornbooks

		or the	se ac	tiviti
	ial co g cand	ooking lles		
Pap er	makir	ng de mo	nstra	tions
	g horr making	,book s		
0000		2		
- **				
•				
الحمور رئيد :				
Ъ.				

Parents

Coin collector

Weaver

Baker

People from Historical Society

Weaving baskets Weaving cloth on looms Make colonial hats Reconstruct by mural - Colonial living or town Field trip to Greenfield Village Make a mural showing how a town is restored Making pioneer dolls Decorating room for colonial Christmas

TATION RESOURCE PEOPLE & MATERIALS

METHOD OF IMPLEMENTATION

UNIT TITLE: COLONIAL AMERICA (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
<u>Health</u>	Select proper foods for well-balanced diet
	List 3 foods characteristic of colonial times
Communication Skills	
Researching	Take notes Locate and utilize information in research text
Reading	Report and read books about colonial America
Spelling	Make a card file
Writing	Write letters Report in written form characteristics of colonial America (home, communities, schools, clothing, food, etc.)
Creative writing	Write a poem
	Write colonial experience stories
	Write autobiographies - as if they were colonial children
	Participate in a group discussion comparing colonial occupations with those of today
	Examine, discuss, and illustrate famous Ben Franklin's saying ie. "Early to bed, early to rise, makes a man healthy, wealthy and wise."
ERIC	184

173

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL	~
Make corn bread Prepare vegetable soup Make butter	S.E.O.V.E.C. Food Services	
Research in diet planning (basic food groups) Keep diary of week's intake of food and make list of those foods which wouldn't have been available in colonial times		
	See cover sheet for materials	
	ί.	
Write reports Make fami ly trees Reading cook books Nake autobicara b u bick of the l		
Make autobiography book of themselves as a colonial child Make a card file of words used in connection with Colonial America Write thank-you notes		
185		

ERIC.

UNIT TITLE: COLONIAL AMERICA (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Science	
Change of state (candle-making)	Describe changing state of matter - solid - liquid - solid Describe five spices and their importance
Machines	Describe simple machines used in colonial cooking
Light	Identify and understand the term "candle power"
Animals	List three uses of animals in colonial times
Plants	Identify and classify five herbs, spices or weeds
Weather	Explain what the colonists did during different seasons of year and how their homes were equipped to survive the different seasons
-	
1	

METHOD OF IMPL	EMENTATION	RESOURCE PEO	PLE & MATERI
•	У		
Make candles, eit by dipping. Paper dipped in wax, th	clip on end of wick		
Research colonial Compare modern to colonial times	tools and equipment . ols with those in		
Making popc orn			
Make a spice char		Herbologist	
Make a mural of se colonial days	easonal activities during	3	
			. •
			. .
·			. ·
· · · ·	· · ·		· ·
	· · ·		· ·
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		

નંલ

1**76**

•

CONCEPTS	BEHAVIORAL OBJECTIVES
~	As a result of this unit, each child will be able to:
Career Awareness	
Man and his job roles Reasons Their functions The location Tools Characteristics Attitudes they do Managing Planning Producing	Build a restored town List 5 individual jobs that were required in a town during colonial time Identify 5 handcrafted colonial tradesmen, tailor, shoemaker, etc.
Custom productions of products Raw materials Preprocessing Services Things People	Purchase material Receive material Store materials and products Distribute a product Advertise a product Sell a product
Self-Awareness	
Work cooperatively with others on a given task	Work cooperatively in a group situation
Feeling important by doing	Identify the role he had in producing the product
Recognizing abilities	Identify the job he did best
Recognizes likes and dislikes	Identify the tasks he enjoyed most and the task he enjoyed least

UNIT TITLE: COLONIAL AMERICA (continued)

1**77**

ERĬC

	RESOURCE PEOPLE & MATERIALS
Make a colonial village	
-	
Making horn books	Candlemaker
Making stilts	Candlemaker
Making hand soap	Weaver
Making Early American sled	Silversmith
Making boot jacks	Blacksmith
Spool knitting	Historian
Weave baskets Make looms	Curator in a museum
as for trade-backs, etc. Have a Thanksgiving dinner Making candles Making colonial hats	
•	
Discuss self-awareness concepts as applied	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor
Discuss self-awareness concepts as applied to this activity (10 minutes)	Guidance Counselor

3

I. NAME OF ACTIVITY

DIPPING CANDLES

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

2 tall double boilers 2 hot plates Pencils Stearic acid (2 tablespoons per pound of paraffin)

```
Scissors
11 pounds paraffin
Wicking - 10 inches per child
Coloring tablet
Yardstick - to hold candles when drying
```

B. Human Aides and Resources

One adult at each double boiler

- C. Procedures for this activity (with helpful hints)
 - 1. Show filmstrip: Craftsmen of Colonial Virginia.
 - 2. Show slides: Craftsmen of Colonial Virginia.
 - 3. Prepare wicking by cutting a desired length, knotting at one end, tying the other to a pencil.
 - 4. Prepare wax before class according to recipe: 20% stearic acid, 80% paraffin (melted but not too hot).
 - 5. Instruct individuals to dip their wick in the wax making sure to hold it straight after - wait a few minutes and then dip again.
 - 6. Hang to harden 2-3 hours.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

This is a very slow process. The activity took two hours and most candles were only about 3/4 of an inch in diameter. An easy way to organize the activity is as follows:

Deuble Beiler

Need time for wax to cool before applying another layer of wax. Could use pan of cold water to dip and cool wax.



COLONIAL AMERICA

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. <u>NAME OF ACTIVITY</u>

MAKING CANDLES - MOLDED

II. ACTIVITY FORMAT:

A. Tools and Materials

Candle wax	Paper cups
2 coffee cans	Candle wick
red and green crayons 2 hot plates	Paste sticks Ladle
	Laure

B. Procedures for this activity (with helpful hints)

191

Melt candle wax in coffee containers. Melt red crayon to color one container of wax. Use green crayon to color the second can of candle wax. Pour into individual styrofoam cups. Cut wick so that enough is left at top to roll on paste stick. This will keep it from falling down in wax. Let this dry and then tear off paper container when candle is hard.

I. <u>NAME OF ACTIVITY</u>

A DAY AT MILLER SCHOOL - GREENFIELD VILLAGE - 50¢ per pupil

II. ACTIVITY FORMAT:

A. Human Aides and Resources

Learning Resource Teacher, Student teacher and parent drivers were used in addition to teacher.

B. Procedures for this activity (with helpful hints)

Miller School is the (restored) school Henry Ford attended as a child. The village supplies McGuffy Readers and Eclectic Spellers, Dunce Caps, willow sticks, etc. We pumped our own water. The children sat in desks typical of the time and dressed appropriately. The day was conducted as it would have been 100 years ago. Typical of a one-room school house.

OUR DAY

I. Opening Exercises:

II.

VI.

Songs Pledge of Allegiance

Recitation Period:

A. Oral - reading from McGuffy Readers in small groups.

B. Seat work

- 1. Math drill on slate boards
- 2. Memorize a poem
- 3. Penmanship writing in copy book
- 4. Sewing cards

III. Lunch - Recess.

IV. Opening Exercises

Choral Reading Short Plays

V. Blacksmith Demonstration (provided by Village)

Spell-down

I. NAME OF ACTIVITY

COLONIAL HATS

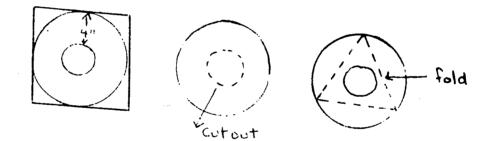
- II. ACTIVITY FORMAT:
 - A. Tools and Materials

Scissors	12" x 12" black construction	on paper
	12" x 12" white construction	
Pencils	white paper doilies 12" x 1	

B. Procedures for this activity (with helpful hints)

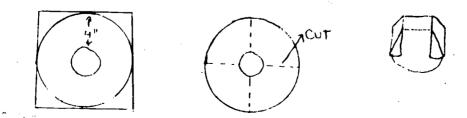
Men's Tricorn Hat

- 1. On a 12" x 12" piece of black construction paper draw a circle in the center (4 inches in diameter).
- 2. Draw another circle 4 inches larger than the first and cut along this line.
- 3. Cut out center circle. Fold to make a Tricorn hat.



Women's Colonial Hat

- 1. Draw a circle 4" in diameter in the center of white construction paper.
- 2. Draw a circle 4" larger than the first.
- 3. Cut around the larger circle.
- 4. Cut slits to the smaller circle.
- 5. Fold and paste or staple to form a cap. (It will look like a lady's pill-box hat)
- 6. Trim with lace doily.



I. <u>NAME OF ACTIVITY</u>

PREPARING APPLESAUCE

II. ACTIVITY FORMAT:

A. Tools and Materials

HativesApplesFatsSugar, Cinnamon, LemonApple CorerWaterMeasuring utensilsHot plateSpoonsSpoons

B. Human Aides and Resources:

Mothers

C. Procedures for this activity (with helpful hints)

One small group at a time core and peel apples. Place in small amount of water in large pot on hot plate. While a couple of kids are constantly stirring and mashing the apples, others are adding ingredients such as sugar, cinnamon, and lemon.

It's a good idea to have help with this such as a mother or two or an aide. Another helpful hint would be to have a masher (the kind used for potatoes) for mashing the apples down as they cook.

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>

Children are able to see and taste a finished product. They could very easily help at home with this same kind of activity.

194

I. NAME OF ACTIVITY

MAKING VEGETABLE SOUP

II. ACTIVITY FORMAT:

A. Tools and Materials

Large cooking pan Hot plate Knife Individual dish and spoon Ingredients

B. Human Aides and Resources

Teacher and students - only

C. Procedures for this activity (with helpful hints)

Wash, peel and cut vegetables. Combine large can of tomato juice, 1 can of tomatoes, 5 potatoes, 5 carrots, 5 onions. Cook until vegetables are soft. Parsley, salt, pepper, barley, rice, oleo 2 stick, celery (grain soup mix).

D. Used small group of youngsters (5) and teacher aide. (Beware of too many children.)

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Much interest and they loved the soup. Good learning experience.

184



I. NAME OF ACTIVITY

COLONIAL COOKING - WILLIAMSBURG CINGER CAKES

II. ACTIVITY FORMAT:

1 / 0

A. Tools and Materials

Oven	Paper	Spoons
Cooking utensils	Mixing bowls	Recipe
Cookie cutters	Measuring cups	noo ipo
Cookie sheets	-Rolling pins	

B. Human Aides and Resources

Parents' aides for each small group

C. Procedures for this activity (with helpful hints)

- 1. Show filmstrip: Cooking in Colonial Days
- 2. Discussion about spices
- 3. Cream lard, sugar and molasses
- 4. Sift flour, ginger, salt and soda into mixture
- 5. Add enough flour to make dough stiff
- 6. Roll very thin
- 7. Cut with cookie cutters
- 8. Bake on buttered tins in a quick oven
- 9. They burn easily

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

RECIPE

Recipe for each batch of cookies made -

1/2 cup lard	2 cups brown sugar
4 cups flour	l tablespoon ginger
l teaspoon soda	2 cups light molasses
1/2 teaspoon salt	· · · · · · · · · · · · · · · · · · ·

2.

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

MAKING MOLASSES CAKE (Similar to Gingerbread)

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

A. Tools and Materials

MixerBaking sodaMixing bowlCinnamon9 x 12 baking panGingerMolassesClovesl eggWhipped creamFlourFlour

B. Human Aides and Resources

Mother volunteers

C. Procedures for this activity (with helpful hints)

Recipe -

1/2 cup sugar 1/2 cup butter 1 cup molasses 1 egg 1 1/2 teaspoon baking soda 1 1/2 teaspoon cinnamon 1/2 teaspoon ginger 1/2 teaspoon cloves 2 1/2 cup flour 1 cup hot water

Cream butter and sugar. Add egg and beat. Add dry ingredients sifted together alternating with hot water.

Bake at 350° 35-40 minutes in 9 x 12 pan.

Serve with whipped cream.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

POPCORN

II. ACTIVITY FORMAT:

A. Tools and Materials

Materials necessary for each item to be made:

Popcorn - on ears with husks (at times available at Pop's)

B. Procedures for this activity (with helpful hints)

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

Husk corn Allow corn to dry on ears (several weeks) Each person has 2 ears of corn Rub dry corn ears together Collect loose corn Pop the corn

I. NAME OF ACTIVITY

MAKING CORN MUFFINS (SOUTHERN)

II. ACTIVITY FORMAT:

A. Tools and Materials

Corn mealButtermilkSaltOleomargerineSodaEggs

B. Human Aides and Resources

Mother volunteers

C. Procedures for this activity (with helpful hints)

Recipe -

2 cups corn meal pinch of salt 1/3 teaspoon soda 1 egg 1 cup (approximately) buttermilk - enough to make consistency of cake mix Pour into hot greased muffin tins. Bake at 400° for 20 minutes

111. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Excellent. Muffins were served at our Southern Colonial Dinner.

188



5~

I. NAME OF ACTIVITY

MAKING CORN BREAD

II. ACTIVITY FORMAT:

A. Tools and Materials

Mixing bowl	Buttermilk
Sp oon	Crisco
Eggs	Salt
Corn meal	Muffin tins

B. Human Aides and Resources

2 parents

C. Procedures for this activity (with helpful hints)

Divide class into 4 groups. Each group made a pan of corn bread.

2 cups corn meal, 1 cup buttermilk, 1 egg and pinch of salt. Mix together and bake in muffin tins at 375°.

200

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Children enjoyed activity and liked the bread. Good learning experience.

1. NAME OF ACTIVITY

MAKING BUTTER

II. ACTIVITY FORMAT:

A. Tools and Materials

Whipping cream (room temperature) Salt Fruit jar Mixing bowl Spoon

B. Human Aides and Resources

Mother volunteer

C. Procedures for this activity (with helpful hints)

1. Shake cream in sealed fruit jars.

2. Pour off buttermilk (save for making corn muffins).

3. Wash butter with cold water until water is clear.

4. Add salt to taste.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Activity turned out very well. Butter was used for our Southern Colonial Dinner.

I. NAME OF ACTIVITY

HORNBCOKS

II. ACTIVITY FORMAT:

A. Tools and Materials

1/4" plywood Oak tag 6" x 6" Shellac

Clear contact paper Black markers Paint brush

B. Human Aides and Resources

Two parents to supervise and work with dremmel saw

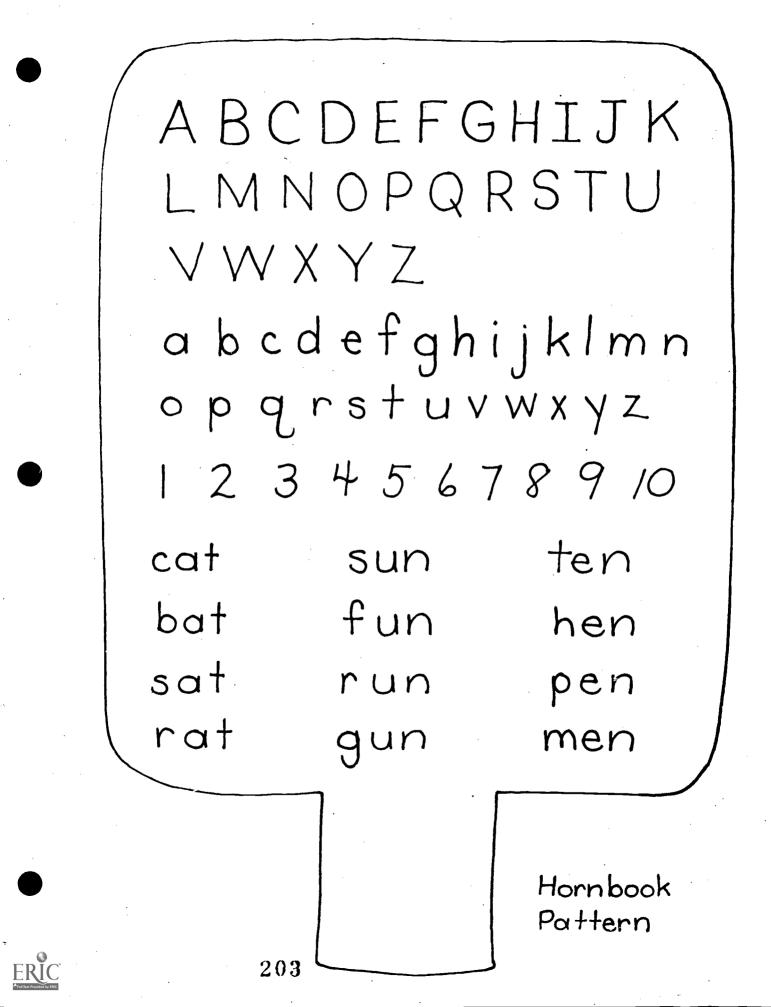
C. Procedures for this activity (with helpful hints)

- 1. Trace pattern on plywood and cut using dremmel saw.
- 2. Shellac wood.
- 3. Draw lines on oak tag.
- 4. Pencil in alphabet and numbers from 1 10.
- 5. After letters have been checkec by teacher, go over with black marker.
- 6. Put clear contact paper over oak tag and attach to wood.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Children learned to use dremmel saw. Children learned to measure lines.

Hornbook pattern on back of page.



I. <u>NAME OF ACTIVITY</u>

WEAVING BASKETS

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

Water Reeds Wagtebasket String

- B. Procedures for this activity (with helpful hints)
 - 1. Show filmstrip Homespun Linen
 - 2. Show realia Loom
 - 3. Show slides Craftsmen of Colonial Virginia
 - 4. Soak the reeds in water overnight (wastebasket is excellent)
 - 5. Each individual starts with six reeds 24" long
 - 6. Place three spokes on a table then put the other across the middle and on top of the first three
 - 7. Select a long piece of string to wrap around the base in an under/over manner
 - 8. Separate the groups of 3 spokes into groups of 2
 - 9. Select a long piece of reed to start weaving the base using the same over/under method
 - 10. After the base is 3-4 inches wide, separate the spokes again and continue weaving
 - 11. As the weaving piece of reed becomes smaller, add another near the short end
 - 12. As the base becomes wider, bend the spokes upward to form the shape of the basket
 - 13. To finish the top, turn the end of each spoke down and weave it into the basket

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

This took several afternoons. Remind the children to weave tightly and to keep soaking the reeds and their baskets as they go along. Baskets may be shellacked when finished.





194

I. NAME OF ACTIVITY

LOOM MAKING

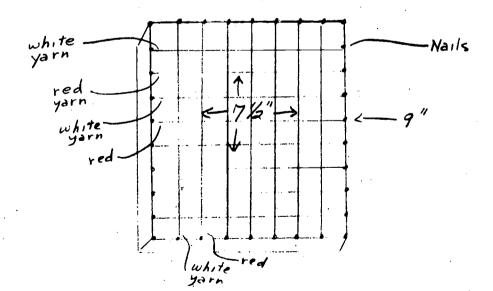
- II. ACTIVITY FORMAT:
 - A. Tools and Materials

2 pcs. 3/4" x 3/4" x 7 1/2" wood 2 pcs. 3/4" x 3/4" x 9" wood 6 d finishing nails 1" x #18 wire brads 3/4" x #16 wire brads

B. Human Aides and Resources

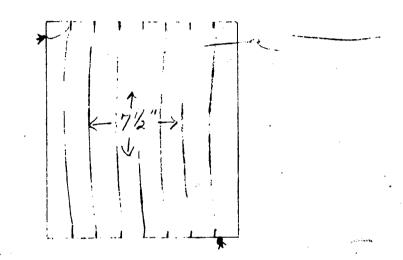
Two Eastern Michigan University students

- C. Procedures for this activity (with helpful hints)
 - 1. Using 6 d finishing nails, nail wood frame together.
 - 2. Lay out and mark 20 equally spaced points on each side of the frame.
 - 3. Drive a #18 wire brad at each point, leaving 1/2" of the brad sticking up.
 - 4. Measure and tie yarn.
 - 5. Nails on four sides.
 - 6. Use alternate colors of yarn (makes it easier when weaving begins).
 - 7. Leave 1/4" space between nails (larger space for younger children).



Loom Making, continued

- 8. Alternate method: Cardboard Looms
 - a. Make equidistant slits on top and bottom of cardboard.
 b. Tie yarn at one corner and then thread yarn up and over slits.
 - c. Tie at other end.
 - d. Weave through threads.
 - e. Take off top tie loops together.
 - f. Do same on bottom.



III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Projects turned out very well and children were eager to begin weaving. Good activity to show how an assembly line works.

206

I. <u>NAME OF ACTIVITY</u>

TRADING DAY

II. ACTIVITY FORMAT:

A. Tools and Materials

Toys, jewelry, or any used item child wishes to exchange.

- B. Procedures for this activity (with helpful hints)
 - 1. Send a letter indicating the class will be having a trading day similar to those held in colonial times when colonists exchanged products for services and items needed.
 - 2. On the trading date, the children circulated by rows exchanging items.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

So great and exciting was the activity that we held trading day twice!

196

1. NAME OF ACTIVITY

MURAL - RESTORED TOWN

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

A. Tools and Materials

ScissorsMagic markersPencilsConstruction paperRulersGlueCrayonsButcher paperPaintMap of Williamsburg, VirginiaMap of Greenfield VillageReference Books

B. Procedures for this activity (with helpful hints)

- 1. Field trip: Greenfield Village
- 2. Show slides of the craft shops of Williamsburg, Virginia
- 3. Show filmstrip: Craftsmen of Colonial Virginia
- Discuss advertising and how individual craftsmen advertised their products
- 5. Have individual students select a craft and design an advertisement to hang outside their shop
- 6. On the butcher paper, recreate the city of Williamsburg, Virginia
- 7. Hang the shop signs

111. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

The children enjoyed this activity, particularly designing shop signs.



I. NAME OF ACTIVITY

MAKING PAPER FROM PULP

II. ACTIVITY FORMAT:

A. Tools and Materials

Egg beater	Mold and deckle	Dish pan
2 pieces of pl yw ood	Toilet tissue	Scissors
Wooden spoons	Felt	Starch
Water	Iron	Mixing bowl

B. Human Aides and Resources

Parent aides to assist small groups

- C. Procedures for this activity (with helpful hints)
 - 1. Tear tissue into small bits, placing shredded bits into a mixing bowl.
 - 2. Add water to mixing bowl.
 - 3. Beat with egg beater.
 - 4. Fill dish pan with water.
 - 5. Add one cup of starch.
 - 6. Add mixing bowl contents to dish pan.
 - 7. Place the mold and deckle in the bottom of dish pan.
 - 8. Place a piece of felt on the top of the mold and deckle. Flip over, leaving a piece of felt with the tissue on top.
 - 9. Squeeze out excess moisture by placing the felt and tissue between two pieces of plywood and standing on it (outside).
 - 10. Allow to dry.
 - 11. Remove felt pieces.
 - 12. If needed, iron the paper.



معادر بعميه

I. NAME OF ACTIVITY

RECYCLING PAPER BY HAND

- II. ACTIVITY FORMAT:
 - A. Equipme.t
 - 1. Finally mashed wire screen 5' x 6 1/2".
 - 2. Aluminum pan 5" x 6 1/2" x 1".
 - 3. This pan can be made from a frozen food container. Any approximately sized pan can be shaped to these dimensions. Cut out the center of the base of the pan, leaving a 1/2" base all around the pan. The screen will rest on this base.

Aluminum pan 3 1/2" x 5" x 1"

Cut out the entire base of this frozen food container, leaving the four sides in an unbroken rectangle. Bind this pan as follows: Use 1" adhesive tape around the four sides, with 1/2" on the inner side and 1/2" on the outer side of the base edge. Repeat the binding with a second strip of tape, this time going up only 1/4" on the four sides, both outside and inside. The additional edge of adhesive tape which hangs below the base rim of this pan will serve to hold in the pulp when you are working.

4. Basin, large enough to hold ten quarts of water.

- 5. Cleansing tissue 30 double sheets.
- 6. Cellulose sponge $4'' \ge 6'' \ge 1''$.
- 7. Several packages of white blotters.
- 8. Laundry starch.

One tablespoon of instant laundry starch mixed with two cupof water.

- 9. Egg beater.
- 10. Electric iron.
- 11. Tray or a work surface which can take moisture.

12. Scissors

B. Resources

American Paper and Pulp Association 122 East 42nd Street New York, New York

- C. Procedures for this activity (with helpful hints) *Need one parent helper at least.
 - 1. Tear 30 double sheets of cleansing tissue into small pieces and place in the basin. Cover the tissue with 1 1/2 quarts of water and stir for about ten minutes until thoroughly dissolved to pulp.

210

 Add the tablespoon of starch dissolved in two cups of lukewarm water, and 8 quarts of water to the dissolved pulp. Beat with the egg beater for a few minutes until tissue fibers are thoroughly dispersed in the water.

Recycling Paper by Hand (continued)

- 3. Place the small pan, tape sides down, on the screen which is the base of the larger pan. Holding both, dip them into the pulp mixture edge-wise, and turn to horizontal position when submerged. Raise both pans, retaining a thin layer of pulp in the smaller one within the framework of the tape. Clear the outer pan of all extra pulp, gently with your finger. The extra pulp should be returned to the basin if you plan to make the 20 sheets.
- 4. Remove the inner frame and lift the screen from the outer frame. Place the screen with the pulp on it on the sponge, with the screen between the sponge and the pulp.
- 5. Gently press the pulp and the wire mesh on the sponge with a white blotter until the moisture is absorbed. Lift up the blotter carefully and you will find that the rectangle of pulp has adhered to it from the mesh screen.
- 6. Place a second blotter over the pulp lying on the first blotter. Press again to absorb the moisture that still remains.
- 7. Place the damp sheet between two new blotters and iron it with a warm iron (not hot). Trim the edges all around with a scissors. Your paper will be about 3" x 4 1/2" and you can write on it with a ball point pen.
- 8. Use the egg bester frequently to keep the pulp thoroughly mixed.
- 9. By placing a blotter between each wet sheet you can make a pile of about ten. Put pressure on this pile for several minutes, using wood blocks.
- 10. For a class of forty pupils, double the amount of tissue, starch, and the size of the pans accordingly.
- 11. To make larger sheets of paper, start with a large size screen and increase the size of the pans accordingly.
- 12. Tinted paper can be made by adding vegetable dye to the pulp and water mixture.

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>

This activity can be conducted in the classroom with the equipment described below. Using the dimensions suggested here, you can produce about 20 sheets of paper, $3'' \ge 4 1/2''$.



211

Ι. NAME OF ACTIVITY

STILTS

II. ACTIVITY FORMAT:

Α. Tools and Materials

Saw Screw driver Sandpaper	4 - 1 1/2" #8 wood screws 2 - 2" x 2" x 6 ft. wood
	2 - triangle shaped blocks of wood - 2 in. thick 6 - 2 1/2 in. screws

Β. Resources

Singing Wheels

С. Procedures for this activity (with helpful hints)

- 1. Sand the two 6 ft. pieces of wood. 2.
 - Sand the two triangle blocks of wood.
- Screw one triangle block to each long piece of wood. Drill 2 holes 1/4" diameter through the triangular 3. blocks as per sketch.

Wood screw the triangular blocks to the stilts l' from 4. bottom of stilt.

RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION) III.



COLONIAL AMERICA

HANDS ON ACTIVITY (STUDENT PERFORMED)

- I. NAME OF ACTIVITY
 - SLED EARLY AMERICAN
- II. ACTIVITY FORMAT:
 - A. Tools and Materials

Square measurer	Wood
Saw	Rope
Hammer	Lumber
Sandpaper	Screws 1 1/2"

- B. Resources
 - Singing Wheels
- C. Procedures for this activity (with helpful hints)
 - 1. Cut pattern for sled
 - 2. Sand wood
 - 3. Screw runners to top
 - 4. Brace runners and top (from underside)
 - 5. Sand wooden runners
 - 6. Wax runners
 - 7. Attach rope

I. NAME OF ACTIVITY

SPOOL KNITTING

TI. ACTIVITY FORMAT:

A. Tools and Materials

 Wooden
 spool
 1 - 3" nail

 4 - 1/2" nails
 Yarn

B. Procedures for this activity (with helpful hints)

1. Large size spool

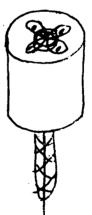
 Place 4 - 1/2" nails in a square around the hole (6 nails may be used)

3. Thread yarn from bottom through the hole

214

4. Circle nails - once

- 5. Circle nails another time
- 6. Pull bottom loop over top loop (use long nail)
- 7. Continue by pulling weaving through the center hole



I. NAME OF ACTIVITY

BOOTJACKS

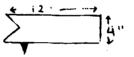
II. ACTIVITY FORMAT:

A. Tools and Materials

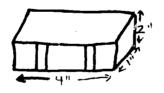
1 crosscut saw
2 #6 - 2 1/2" Slat head wooden screws
1 piece 3/4" x 4" x 12" pine
i piece 1" x 2" x 4" pine

B. Procedures for this activity (with helpful hints)

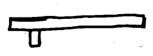
Measure, draw, and cut a 3" V in one end of the 12 inch piece of wood (as shown in sketch)



Four inches from the "V" end fasten the 1" x 2" x 4" lift to the bootjack base. First drill 2 1/4" holes through the block (see sketch).



Then using the appropriate wood screws, fasten the lift to the base of the bootjack.



Ι. NAME OF ACTIVITY

HAND SOAP

II. ACTIVITY FORMAT:

Α. Tools and Materials

> Class gallon jar Enamel pan (large) Wooden spoon 1 wooden box - about 2 ft. x 1 ft. l can lye 8 1b. grease

В. Human Aides and Resources

> Four to six people. One adult to help pour lye and work with the small group of children.

Procedures for this activity (with helpful hints) C.

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

- 1. About 8 pounds of grease saved from cooking
- 2. Heat just enough to pour
- 3. Strain grease
- Place grease in double amount of water 4.
- 5. Boil water and grease at least 20 minutes
- 6. Set aside and cool
- Take hardened grease from top of water. 7.
- 8. Use 6 pounds of grease
- Heat just to lukewarm use enamel dish 9.
- Put 5 cups of water in glass jar 10. 11.

Slowly empty one can of lye into 5 cups of water 12.

Stir with wooden spoon 13.

Allow to cool

Slowly pour cooled lye into lukewarm grease (6#) 14. 15.

- Stir with wooden spoon until mixture is like whipped cream 16.
- Pour mixture into wooden box which has been lined with the wet sheet
- 17. Cover mixture with edges of wet sheet
- Let stand 48 hours to one week 18.
- 19. Cut into cakes
- 20. Yields 30 cakes

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Long process



HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

DOLLS

II. ACTIVITY FORMAT:

A. Tools and Materials

Hook screws Wire - small 1 ft. of 1/2 in. doweling Saw Cloth Yarn Bread & glue for clay (See Mother's Day Flower directions)

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

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

Make a head with face from clay Put yarn hair on head (pin knotted yarn to head) Allow head to dry Cut doweling in sections to form a doll Put hook screws on each end of each piece of dowel Connect each section of doll by wiring through the center of the hook screw Cut and sew clothes for doll



III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

HANDS ON ACTIVITY (STUDENT PERFORMED)

1. NAME OF ACTIVITY

WRAVIINI NAAPEIA

U. AUTIVITY FORMAT:

......

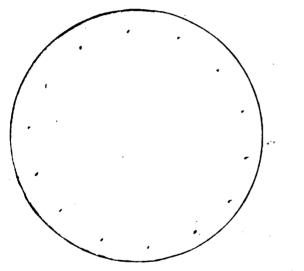
A. Tools and Materials

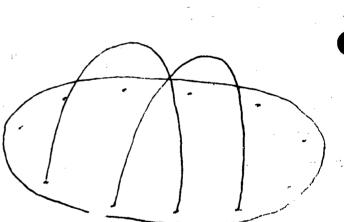
Basket kits from Delco Craft (containing base for baskets and reeds for weaving)

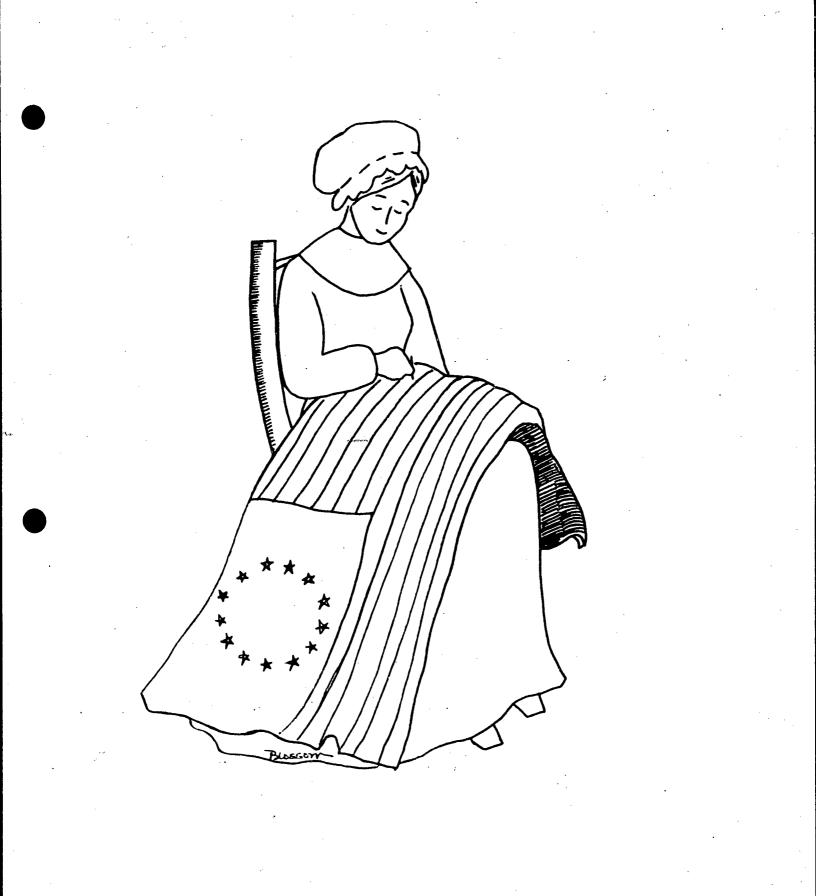
B. Procedures for this activity (with helpful hints)

(Note: holes for spokes need to be enlarged)

- 1. Soak reeds (overnight)
- 2. Put spokes into base.
- 3. Weave.







EVOLUTION OF THE AMERICAN FLAG



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

GOVERNMENT: EVOLUTION OF THE AMERICAN FLAG

GRADE LEVEL: 3-4

<u>GENERAL OVERVIEW</u>: This unit should familiarize the student with the development of our country and our flag. It's meant to develop love and respect for our country and its flag.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials:</u>

Books: <u>Social Sciences - Values and Concepts</u>, Harcourt Brace & World Level 3 - p. 255 Level 4 - pp. 264-266 <u>National Geographics</u> - check "Index to Periodical Literature"

Films: History of Our Flag (Color, 9 min) I Our Country's Flag (11 min b/w)

Filmstrips: America the Beautiful Capitol: Symbol of Our Nation How Our Flag is Made (R) Shrines and Monuments (R) Statue of Liberty Symbols of America Visiting the Statue of Liberty Your Flag

Realia:

This is My Country Records Pledge of Allegiance Flags of America

2. Field Trips:

Detroit Historical Museum Fort Wayne Military Museum

3. Human Resources:

T**e**ach**er**s

4. Activities:

Drawing flags Sewing flags Role-playing, Betsy Ross play about flag Make diorama of periods in our history and display the flags Collect and make a book of early history as it pertains to different flags

220

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	
Flags	Gather pictures, books and stories
Patriotism	of changes in flags as our country has developed
	Draw changes in the flag
	221

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Show the whole group movies and filmstrips Display pictures from local and Royal Oak Instructional Materials Center In small groups view filmstrips frames of particular flags	Flag maker
Read sections in level 3 and 4 texts Write stories about various flags after esearch, e.g.	
Leif Ericson - Viking flag Columbus - his flag	
England - Union Jack Early American Flags	
Endicott flag	
New England flag	
Washington's flag	
Continental flag Bunker Hill flag	
Bunker Hill flag Bennington flag	
Betsy Ross flag	
Confederate flag	4
Stars and Stripes	
48 star	
50 star Nichigan flag	
Royal Oak/Huntington Woods flag	
Perform Betsy Ross play	
Write creative plays or poems about some	
phases of flag development	
Make cloth flags Make dioramas	
Take field trips	
•	

ERIC

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Researcn history	Analyze how different people and countries affected the country and the flag
Report writing	Compare the likenesses and differences in appearance of the flags
	Relate the uses and meanings of "Old Glory"
Music and Art	
Patriotic songs	Learn the 3 verses of "The Star
	Spangled Banner" Learn "America the Beautiful" words and melodies Write the "Pledge of Allegiance" words from memory Prepare two flags from paper and one from cloth

UNIT TITLE: GOVERNMENT: EVOLUTION OF THE AMERICAN FLAG (continued)

and the second s

METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS Role playing Seamstress Read stories about flags in history Member of V.F.W. or Disabled American Veterans Make scrapbooks of flags and history Make diorama of flags Construct a flag



ERIC

UNIT TITLE: GOVERNMENT: EVOLUTION OF THE AMERICAN FLAG (continued)

CONCEPTS	<u> </u>	BEHAVIORAL OBJECTIVES
· · ·		
		As a result of this unit, each child will be able to:
Career Awareness		
Producing		Make a book of sto ries a nd flags Silk screen flags of our country
Products		Construct dioramas appropriately representing geographical sections of our country
		Identify jobs in flag production
		Produce a flag
		Identify 3 reasons for having a flag
		•
·		
· · · · · · · · · · · · · · · · · · ·		
		ς.

	• \bullet \bullet =\bullet \bullet =\bullet \bullet =\bullet \bullet \bullet =\bullet \bullet \bullet =\bullet \bullet =\bullet \bullet =\bullet \bullet \bullet =\bullet \bullet =\bullet \bullet \bullet =\bullet =\bullet =\bullet =\bullet =\bullet \bullet =\bullet \bullet =
Produce a book	Printer
Produce a diorama	
fioduce a diorama	Art teacher
	1
	1

Produce a flag

METHOD OF IMPLEMENTATION

226

RESOURCE PEOPLE & MATERIALS

Seamstress

Resource Guide - from Detroit Historical Museum -----

ANDS ON ACTIVITY (STUDENT PERFORMED)

NAME OF ACTIVITY Ĩ.

MAKING BOOKS ON EVOLUTION OF FLAG

II. ACTIVITY FORMAT:

Α. Tools and Materials

Paper	Paste
Cardboard	Needle
Thread	necure

Procedures for this activity (with helpful hints) Β.

Make a book (Binding Method). 1.

2. Write stories from research - from early discovery of America to present time.

Research and draw flags that go with these early stories 3. (See list of people and flags listed on page 1).

4. Copy poems and songs about flag.

5. Write history of Pledge of Allegiance to the Flag.

6. Put all of above into the made book.

RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION) III.

EVOLUTION OF THE AMERICAN FLAG

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. <u>NAME OF ACTIVITY</u>

MAKE A DIORAMA OF PHASE OF MICHIGAN'S GROWTH (Use dioramas on Detroit Historical Museum by a guide)

II. ACTIVITY FORMAT:

A. Tools and Materials

Box Cloth

Paper Small dolls

B. Human Aides and Resources

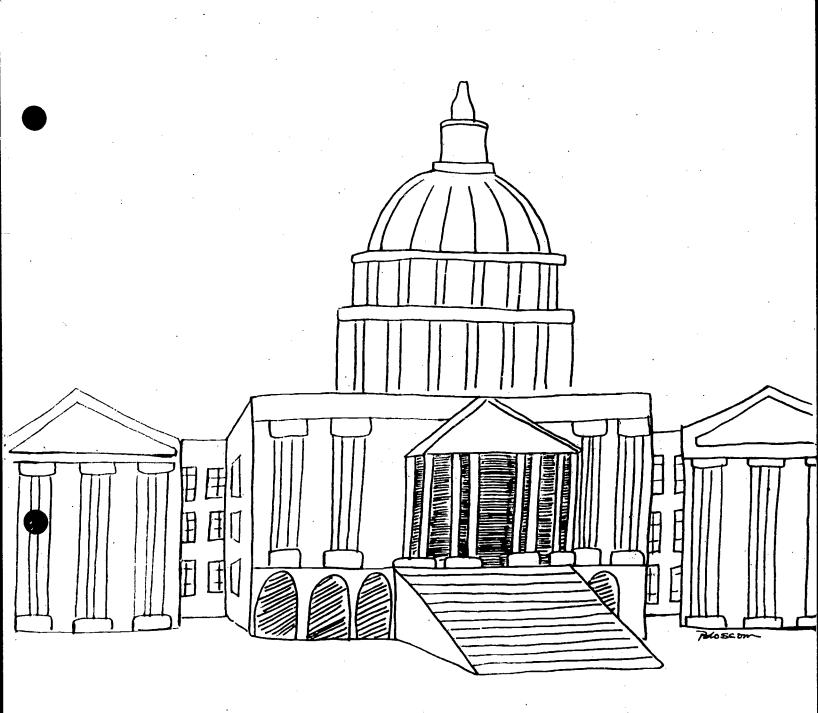
Research Detroit Historical Museum Fort Wayne Military Museum

C. Procedures for this activity (with helpful hints)

- 1. Identify one phase of historical growth such as Cadillac establishing Detroit.
- 2. Make clothing, boats, etc. of that period.
- 3. Paste some in box making diorama.
- 4. Display the flag of that particular period.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





LEVELS OF GOVERNMENT

229

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: GOVERNMENT: LEVELS OF GOVERNMENT

ATTA MA

GRADE LEVEL: 3-4

GENERA' OVERVIEW: The levels of government were explored. The relationship of government to the free enterprise system was stressed.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials:</u>

Books: <u>The Social Sciences</u> - Level 3 - Unit 7 (Harcourt Brace & World) <u>The Social Sciences</u> - Level 4 - Units 5 and 6, pp. 184-291

Maps:

School District, Huntington Woods, Ro**yal** Oak, Oakland County, Metropolitan area, State

2. Field Trips: (within and out of school)

Royal Oak Public Schools - 1026 N. Main Street 4000 Crooks Road Huntington Woods City Hall - Treasurer Royal Oak City Hall - Treasurer, Planning Oakland County Court House - Treasurer Huron Clinton Metropolitan Authority Michigan Employment Security Office - Detroit

3. Human Resources:

Mothers to drive and supervise each small group.

4. Activities:

Make a large map of each level.

UNIT TITLE: GOVERNMENT: LEVELS OF GOVERNMENT

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
<u>Communication Skills</u>	
Reading for information	Construct an exhibit of one level of government for the school
Letter writing	Prepare a scale map of their political level of government
Oral communication	Construct a display appropriate to their areas of study
Written reports	· · ·
Creative writing	· · ·



METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
· ·	
Unit 4 of the fourth grade Social Science Book was used as a starting point for the	<u>Field trip</u> :
unit.	Royal Oak Public Schools
	<u>1026 N. Main</u>
Scale map of area chosen, with help of opaque projector.	Mr. Potthoff,
opaque projector.	Personnel - other than
Research to get background for questions.	teachers
get stonground for questions.	Mr. Goodall, The budget
Brainstormed for questions to ask	4000 Crooks Road
resource people.	Mr. Welch,
Comp huston 1	Teaching personnel
Sent business letter and questionnaire	
to resource person to be visited as preparation for their visit - giving	
background of the areas studied.	
S THE LE GIOLE BLUGICU.	<u>Field trip</u> :
Mini field trip (with 4-5 in a group).	Huntington Wood City Hall LI 1-4300
Compiling information from the field	Mrs. Barbara Smela,
trip and research in preparation for	Treasurer
exhibit to be shared within the school.	
Thank-you letters.	
	Riold Trin
Interchange among the various groups	<u>Field Trip</u> :
for comparison of services the	Royal Oak City Hall
different departments provided.	LI 6-1000
Publish for the state	Civil Defense,
Exhibit for the school.	Mrs. Rogers
Student evaluation of the experiences.	Planning - treasurer,
end experiences.	Mr. Tubbs
	<u>Field Trip</u> :
	Oakland County Court Hou se
	Pontiac
	1-645-1150
	Treasurer
	Mr. Shayne Murphy
232	

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Mathematics	
Budget parts	Identify three sources of tax revenue
	Identify 4 uses of tax revenue
	List priorities in developing a budget
Career/Self-Awareness	
Man and his job role	Identify various levels of occupations in their chosen department
Managing government	Identify the qualifications for three jobs in the department - identify four types of training needed
Servicing a community	Identify whether the job produces a product or renders a service
Personnel employed in public service	Identify different incomes of workers in the department
Identification of personal values	Describe two characteristics that you would look for in a job if you were looking for a job.
	Identify the values reflected in those objectives (independence, good salary, financial security)



_____·

METHOD OF IMPLEMENTATION

Compiling information from the field trip and research in preparation for exhibit to be shared within the school

Interviewing City Treasurer

Role playing

Field Trips

Assembly line

Evaluating

RESOURCE PEOPLE & MATERIALS

Field trip:

Huron Clinton Metropolitan Park Authority 600 Woodward, Detroit Mr. Downey 961-5865

Field trip:

Michigan Employment Security Office 7310 Woodward at Grand Blvd. Detroit 872-4900, ext. 430 <u>Tour leader</u> - Edison Vogel Room 515 also Mr. Don McGee Mr. Friedman

Governor has an office for his use here.

ERIC

234

ANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

VISIT TO HUNTINGTON WOODS CITY HALL

- II. ACTIVITY FORMAT:
 - A. Human Resources:

Treasurer of City Hall Parents

B. Procedures for this activity:

Interview (questions to seek answers for):

TAXES

Where do you get your money from? What kind of taxes are collected and who pays them?

How much from property taxes?

How much from sales tax?

How much from gasoline tax?

Who collects the taxes?

BUDGET

How much money is in your budget? Do you have it broken down by departments?

What are the departments?

How many people are on the police force? The fire force? How many employees altogether do you have?

What is the average salary?

What kind of activities (services) do you have?

ď.

ZONING

Does Huntington Woods have zoning rules? How is it zoned?

Who runs the city? How is (are) he chosen?

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

GROUP VISIT TO ROYAL OAK CITY HALL

II. ACTIVITY FORMAT:

A. Human Resources:

Civil Defense Tour Leader Drivers

B. Procedures for this activity:

Interview (questions to seek answers for):

TAXES

Where do you get your money from?

How much money does it take to run Royal Oak?

How many people live in Royal Oak?

What different kinds of taxes does Royal Oak receive money from?

Who collects each kind?

BUDGET

How is the money spent?

How is the money budgeted?

How many departments do you have?

How many employees do you have? What is their average salary?

Do you help run the schools?



Group Visit to Royal Oak City Hall (continued)

JOBS

What kinds of training does Royal Oak need in the people they hire?

What are the requirements to work in Royal Oak?

ZONING

Do you have zoning? How is the city zoned? Who decided on zones?

Is there room for more houses and factories and stores in Royal Oak?

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

VISIT TO OAKLAND COUNTY TREASURER'S OFFICE

II. ACTIVITY FORMAT:

A. Human Aides and Resources:

Oakland County Treasurer Parents

B. Procedures for this activity:

Interview (questions to seek answers for):

TAXES

What kind of taxes does the county get? Who collects it?

Who pays them? Gasoline taxes - how much? Property taxes - how much?

State money for Intermediate schools?

Other monies? How much?

How much money does it get each year to spend?

BUDGET

. T. .

How much money does it spend?

How many and what departments does it have?

How many people work for the county?

In the sheriff's department? In the welfare? In the courts? In the roads? In the Health departments? At the county offices? At the school? Other areas?

How many people live in the county?

Visit to Oakland County Treasurer's Office (continued)

ZONING

Is there any town planning or county planning for areas of high population and areas of recreation?

240

:

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

HURON-CLINTON METROPOLITAN AUTHORITY - DETROIT HEADQUARTERS

II. ACTIVITY FORMAT:

A. Human Resources:

Director of Huron-Clinton Metropolitan Authority Students Parents

B. Procedures for this activity:

Interview (questions to seek answers for):

TAXES

Where does your tax money come from?

How much do you get for your taxes?

Do you have enough money? Did you request more?

BUDGET

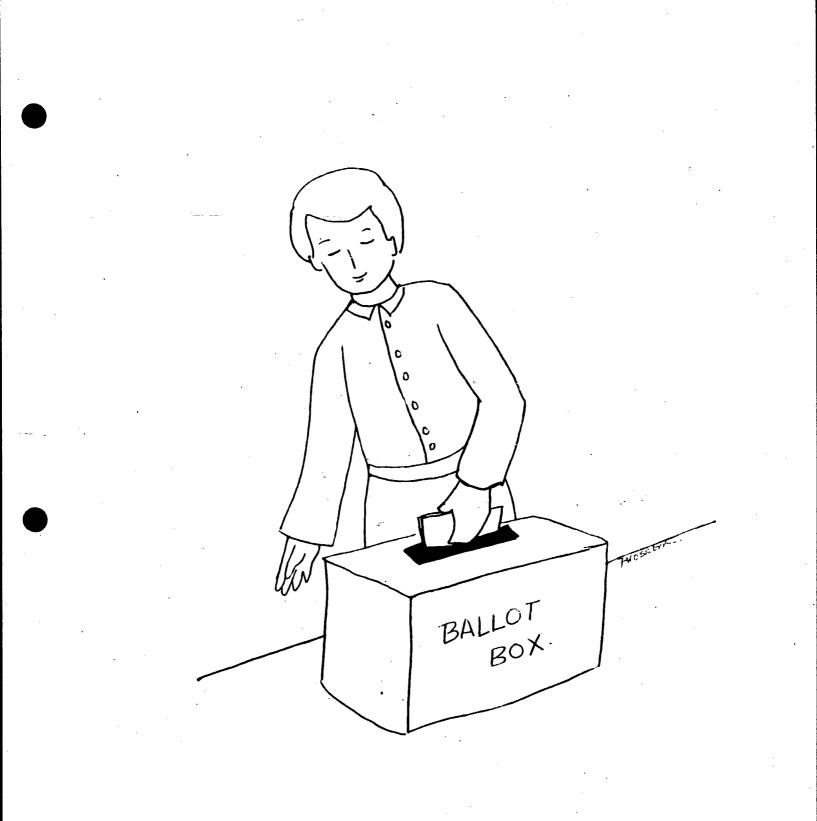
How do you use your money? How many parks are there in your authority?

Do you have different departments? How much money does each have to use? If there aren't departments, how is your money divided?

WORKERS

How many workers do you have? What kind of education do they have? If I want a job with you what kinds of things do I have to do or be able to do? How much money do your workers earn?





ELECTIONS





SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

GOVERNMENT: ELECTIONS

CRADE LEVEL: 3-4

CENERAL OVERVIEW:

: The unit is developed as a means to acquaint students with the present form of our political system. This culminated with class elections and a play.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials:</u>

Filmstrip:

The Election of a President 1972 from the <u>Daily Tribune</u> The Social Sciences

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

Visit to Republican and Democratic Headquarters 8 Students to <u>Tribune</u> Visit precinct on day of election Visit the news room of the <u>Daily Tribune</u> when a national candidate was in the area Visit student Court Room at Starr School Visit Municipal Court

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

Headquarters' workers Sister of Congressman Precinct chair person Judge, court employees Mayor representative in Congress Parents - in communication and allied industries

4. Activities:

Nomination petitioning Elections



243

23.

UNIT TITLE: GOVERNMENT: ELECTIONS

CONCEPTS	BEHAVIORAL OBJECTIVES
Social Studies	As a result of this unit, each child will be able to:
U.S. Political System in elections including: Nomination of candidate	Nominate classmates Campaign for their candidate
Majo r it y r ule Plu rali ty	Count ballots to reach a majority Score 70% or more on a teacher-made test dealing with the presidency (60% of class will succeed in this)
Plotform Political parties	Participate in the pr oduction of a play about the United States government
Government a) resolving conflicts peacefully b) social controls c) representative and direct democracy d) leadership and authority e) interest groups	Identify information in a newspaper about a candidate running for political office or one serving in government and shall place this information in a scrap book
c) interest groups	Analyze and resolve conflict peace- fully by using social controls Demonstrate representative and direct democracy through class election

The viewing of 35 mm slides in the life of a U.S. Congressman including His campaigning His work at the Capitol His encounters with the Executive branch The National Democratic Convention The process of American Government Each student chose a person in government or a candidate in the newspapers and made a scrapbook of their work during September and October (5 weeks)	Use of texts at the 3rd, 4th and 5th level in Social Science (See sample worksheet developed for the 3rd grade text) The Election of a President 1972 from Daily Tribune (work sheet inclusion) Student supplied copies of the Daily Tribune, Detroit News, Detroit Free Press
	· · · ·

ERIC.

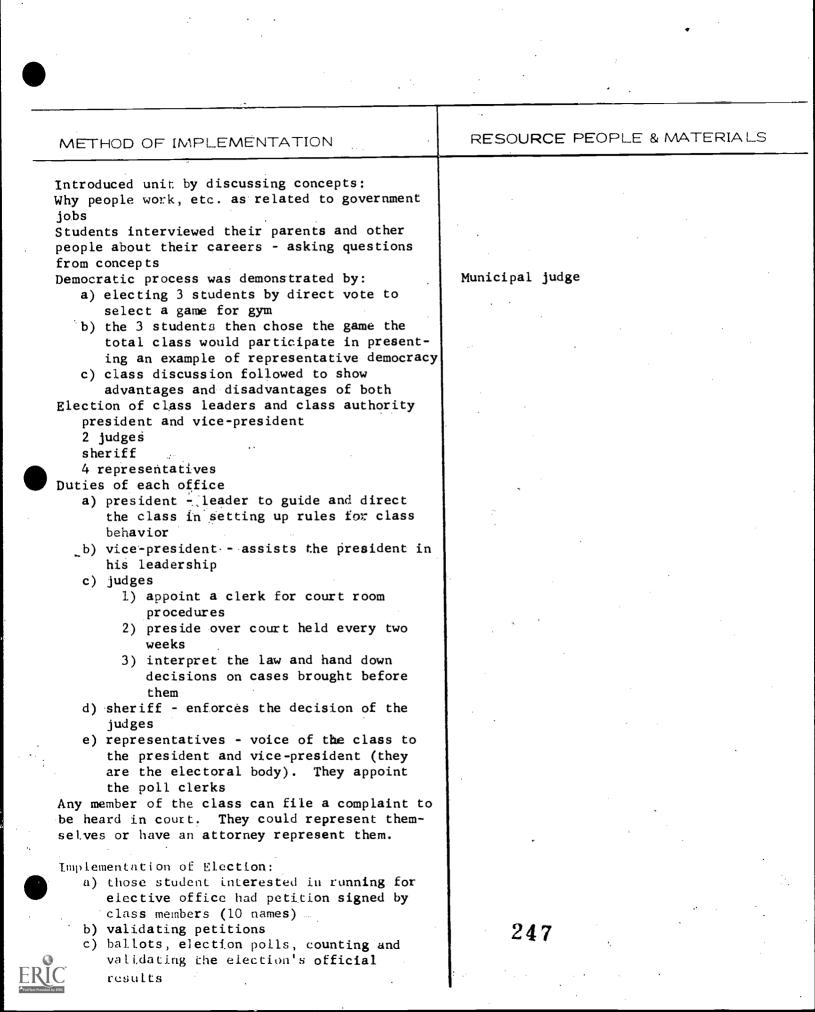
RESOURCE PEOPLE & MATERIALS

UNIT TITLE: GOVERNMENT: ELECTIONS

ONCEPTS BEHAVIORAL OBJECTIVES As a result of this unit, each child will be able to: Communication Skills Creative writing Write a skit about a career of their own interest giving the characteristics. of the job Role playing Role play this skit to the class Role play a career he has studied Interviews Interview the resource career people in class, on field trips, and others they come in contact with Reporting Write a report and present orally to the class the observations viewed from field trips Letter writing Write thank-you letters Develop vocabulary

246

ERIC Full Back Provided By ERIC



	BEHAVIORAL OBJECTIVES
	As a re sult of this unit, each child will be able to:
Math	
Counting sequences Inequalities Sums	Tabulating v oting
Estimation	
a	
· · · · · · · · · · · · · · · · · · ·	
Career/Self-Awareness	
Managing a life style fo r people	Shall be able to describe democratic process
Reasons people wo r k	Describe humanities, social and economic values of work
Functions of wo r k	Shall be able to identify 4 service occupations of government
Locations of w or k	Shall be able to identify the federal, state and local levels of government
Tools	Shall be able to list 4 tools used in government work
Characteristics	Shall be able to list 2 likes and 2 dislikes of government work
Awa r eness of othe rs	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 interests
	248

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Counting ballots for class elections	Election workers
Graphing election results	
- 3×-	
	· · ·

The viewing of filmstrips Field trips

Hold elections

Role playing

1.2

Headquarters' workers

Congressman

Judge

Court employees

Mayor



238

ELECTIONS

THE E	ELECTION OF A PRESID		
This is a necial year bec	221150 120 000	NAME	
This is a special year bec	cause we are	a pres	sident for
four years. Each national poli	ltical	selects	a
for pres	ident and		The two main
parties are the	and	the	
The party begins in cities	s with workers and de	elegates at the	
level. These ward or precinct.	workers meet to choo	ose people to go to th	e national
c	onventions. To be a	a candidate for presid	ent you must
he a citizen of the United Stat	es and be at least _		_ years old.
Some states held elections	last spring called	pre s idential	
At the nominating convention the	e part writes a pape	er about what it believ	ves called
the	Nominating and	• •	
speeches are given for each pers	son running for the	offices Then small a	
n favor for their person; the			
receives a	of the set	called caucuses. The	person who
presidential candidate.		s is chosen as that pa	rty's
·			•
Next the	who will	be his	mate is
reked. Now the	begins.	T h ese leaders wo r k to	win a ll
heir party members' help - that	is they try to	·	their
party behind this candidate.			
The way a candidate makes p	eople feel about him	n is called his	•
mage. Each party tries to sell			to sell
oys or cereal to you.		,	
Next the parties work to get	t all possible voter	·s	• .
o they will be allowed to vote.			ie ie
alled a	. The voter votes h	V secret	- 10
usually done on a machine. We	e usually have two p	olling places at Wa sh i	This

250

ERIC Full Text Provided by ERIC Į,

THE ELECTION OF A PRESIDENT (continued)

The majority winner in electoral	a state receives all on This group meet	is after election day and	
	the states' votes.	. This is reported to _	
The newly elected pres	ident takes the	of	
on Inaugu r ation Day in Wash	ington D.C. This occurs	in Janua r y. He will se	rve for
yea	rs. A person may not sen	rve more than	Cerms
as President			

Word and Phrase List			
campaigning	casts	- 4	vice-p r esident
candidate	Congress	majority	Republican
Democrats	oath	2	p ri ma r ies
ballot	p011	registered	35
college	unify	president	platform
leadership	office	nominating	seconding
running	vice-president		

Use each one once.

F.



240

(Student's Name)

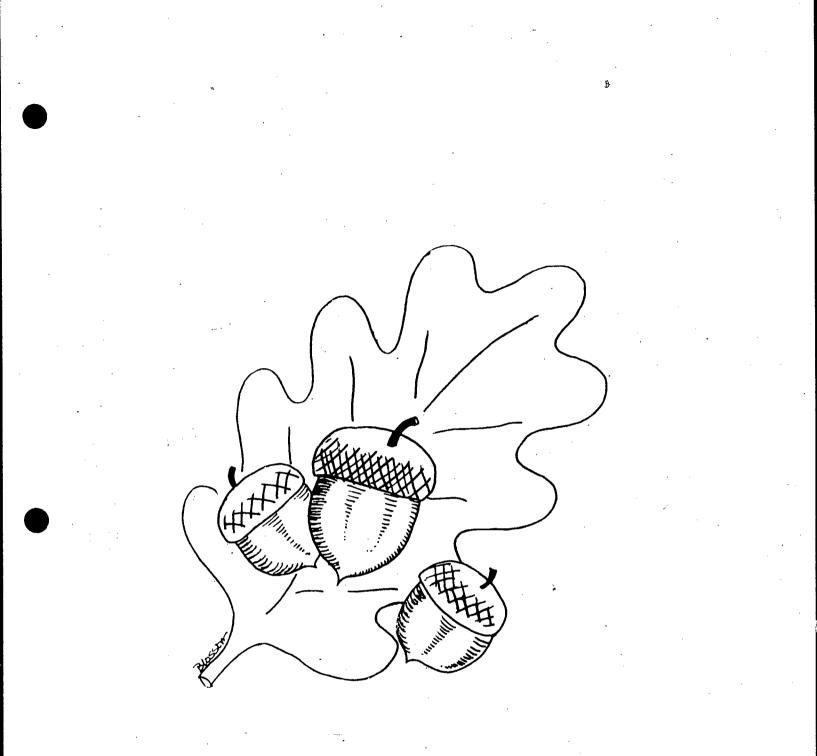
	Frank Kelley
	Mayor Gribbs
	Ray Hayward
	Kiy haywara Kissinger
	Ralph Nader
	Judge Roth
	Robert Griffin
·	Robert Huber
	Gov. Wallace
	Spiro Agnew
	Gov. Romney
	Judge Thorburn
	Sen. Phillip Hart
	George McGovern
	O'Brien
	Israel
5-e	Wm. Broomfield
	Shirley Chisholm
	Hazen
	Mrs. Barbara Hallman and Royal Oak Beautification - Recycling Center Patterson
	Kleindienst
	Sen. Muskie
	Gov. Millikin
	U.S. Rep. candidate Cooper
· · · · · · · · · · · · · · · · · · ·	Ted Kennedy
	Ron Cunningham
	H. H. Humphrey
	V. P. candidate S. Shriver
	Pres. Nixon 252

•

·

ERIC

. .



ROYAL OAK

ŇĊ

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: ROYAL OAK

GRADE LEVEL: 3-4

GENERAL OVERVIEW: (

Children will best understand the organization or structure of city government when they focus on their own locality. This unit is designed to appeal to Royal Oak children. .:-3

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials</u>:

<u>Chamber of Commerce Book on Royal Oak</u> <u>History of Royal Oak</u> <u>History of Oakland County</u>

2. Field Trips:

Field trip to City Hall and/or other buildings run by the City such as a fire station and the library, etc. Field trip to historical points of interest in Royal Oak

3. Human Resources:

Speaker on History of Royal Oak Police Officers City Attorney Superintendent of Royal Oak Schools Senior citizen - born in Royal Oak

4. Activities:

Role playing:

Acting as various members of city commission Acting out various roles of city court Acting out role of policeman Hands-on activities: Making city model Making jigsaw puzzle of Royal Oak map Make filmstrip of historical points of interest Make murals of important buildings, parks, schools, churches in Royal

UNIT TITLE: ROYAL OAK

CONCEPTS	BEHAVIORAL OBJECTIVES
Social Studies	As a result of this unit, each child will be able to:
History and geography of area	Describe boundaries of Royal Oak List four important events in the
	history of Royal Oak List five physical changes in the composition of the city in the past fifty years
	List five commercial businesses in Royal Oak
	list four cultural organizations in Royal Oak
	List important buildings in Royal Oak, e.g. Shrine, Zoo, Farmers' Market, Library
Communication Skills	
Writing reports	Write five important places of employment in Royal Oak
Write letters Make booklet	Write a letter requesting information and materials
Taped reports	

ER

ETHOD OF IMPLEMENTATION RESOURCE PEOPLE & A + + + + + + + + + + + + + + + + + +		······································
Have student do individual study and research on a large American city Select city symbols: (a) bird (b) tree (c) flower Make a city model Make puzzles from map of Royal Oak Have a mock court Set up a city commission Write a letter to Recreation Department requesting a map on parks. Make a booklet incorporating facts found out about Royal Oak. Have children	ETHOD OF IMPLEMENTATION	RESOURCE PEOPLE & AVE 11
Have student do individual study and research on a large American city Select city symbols: (a) bird (b) tree (c) flower Make a city model Make puzzles from map of Royal Oak Have a mock court Set up a city commission Write a letter to Recreation Department requesting a map on parks. Make a booklet incorporating facts found out about Royal Oak. Have children		
Select city symbols: (a) bird (b) tree (c) flower Make a city model Make puzzles from map of Royal Oak Have a mock court Set up a city commission Write a letter to Recreation Department requesting a map on parks. Make a booklet incorporating facts found out about Royal Oak Take slide pictures on Field Trip to points of interest in Royal Oak. Have children	Have student do individual study and research on a large American city	Chamber of Commerce member
Have a mock court Set up a city commission Write a letter to Recreation Department requesting a map on parks. Make a booklet incorporating facts found out about Royal Oak Take slide pictures on Field Trip to points of interest in Royal Oak. Have children	(c) flower Make a city mod el	-
requesting a map on parks. Make a booklet incorporating facts found out about Royal Oak Take slide pictures on Field Trip to points of interest in Royal Oak. Have children	Set up a city commission	
requesting a map on parks. Make a booklet incorporating facts found out about Royal Oak Take slide pictures on Field Trip to points of interest in Royal Oak. Have children	•	
out about Royal Oak Take slide pictures on Field Trip to points of interest in Royal Oak. Have children		•
	out about Royal Oak Take slide pictures on Field Trip to points of interest in Royal Oak. Have children	

ERIC.

UNIT TITLE: <u>ROYAL OAK (continued)</u>

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Measuring	Measure a city block
Drawing to scale	Measure perimeter of a city park and compute the area
	Make a time line of Royal Oak history
	·
Career/Self-Awareness	
Servicing	List five services provided by city
Managing a) planning b) organizing c) controlling	List five important places of employ- ment in Royal Oak
Job locations a) interior b) exterior	
Identifying areas for development	Give an example of a skill (physical, academic, or social) which you want or have wanted to develop Describe what information made you decide to develop that skill (e.g., knowing you could do better, knowing others could do better, knowing others expected you to do better, etc.)

257

EI

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL:
· · · ·	
Make a time line of Royal Oak history Pictures of old Royal Oak	Senior citizen
1818 first settler 1823 Hubbard settled in area Chase's Corner	Historical Society
1826 first store 1830 first post office 1850 first school	
1891 Royal Oak became Village 1921 Royal Oak became a City Beaumont Hospital built in 1960's Our school built	
Graphs of population growth of Royal Oak 1940 - 25,000 1950 - 46,000 1960 - 80,000	
1970 - 86,000	
·	
• Visit City Hall personnel department	
Interviewing city workers	
•. •. •. •. •. •. •. •. •. •. •. •. •. •	
· · · · · · · · · · · · · · · · · · ·	

ERIC Full Text Provided by ERIC

UNIT TITLE: ROYAL OAK (continued)

BEHAVIORAL OBJECTIVES CONCEPTS As a result of this unit, each child will be able to: Art Combining Separating Construct a unique City flag Forming

`

	METHOD OF IMPLEMENTATION		RESOURCE PEOPLE & MATLET
- <u></u> .			
	Draw an imaginary City flag - have class contest to select best or mos appropriate flag	a st	
. ,	Make a collage of flowers and plant found in Royal Oak	s	
)			
, uter			
	• • • • • • • • • • • • • • • • • • •	• .	
. · -			
		260	

. 1

I. NAME OF ACTIVITY

JIGSAW PUZZLE OF ROYAL OAK

II. ACTIVITY FORMAT:

A. Tools and Materials

Piece of tempered masonite Royal Oak Map

Mod-podge Dremel Saw

B. Human Aides and Resources

It would be wise to have another adult to supervise the use of the dremel saw.

C. Procedures for this activity (with helpful hints)

Use Mod-podge and put map of Royal Oak on masonite, be sure that the surface is evenly glued and smoothed. Allow several days for drying. On the back of the masonite draw intersecting wavy lines - it is wisest to keep the lines fairly simple since it is difficult for the children to saw intricate lines.

NOTE: Maps of Royal Oak are available from the City Hall or School District, City of Royal Oak.

ROYAL OAK

251

HANDS ON ACTIVITY (STUDENT PERFORMED)

- I. NAME OF ACTIVITY
 - GLOBES
- II. ACTIVITY FORMAT:

A. Tools and Materials

Papier mache	Balloon	Two strings
Paint	Scissors	Glue
Мара	Brushes	

B. Human Aides and Resources

Art teacher

C. Procedures for this activity (with helpful hints)

Make a wad of paper Cover with papier mache Let dry Paint blue Cut out continents from maps and pin string for hanging Glue continents on map Hang with additional string

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

SCHOOL MAPS

II. ACTIVITY FORMAT:

A. Tools and Materials

Measuring devices Paper Pencil

B. Procedures for this activity (with helpful hints)

Using an appropriate scale, have the students measure the school (room, entire school) and draw it to scale

263

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

2	c	2
4	J	2

ANDS ON ACTIVITY (STUDENT PERFORMED)	١.
--------------------------------------	----

I. NAME OF ACTIVITY

MAP PUZZLES

II. ACTIVITY FORMAT:

A. Tools and Materials

Dremel saw	1/4 inch plywood
Shellac	Elmer's glue
Maps - flat	Paint
	Paint brushes

B. Human Aides and Resources

Adults and parents

C. Procedures for this activity (with helpful hints)

Elmer's glue - glue maps on 1/4" plywood - tempered masonite preferred Cut maps apart Shellac maps Team children in two's to cut out maps into puzzles Paint back of puzzles - color code Shellac again Put puzzles together to check pieces and put in coded box

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

MAP MAKING USING DIFFERENT MEDIA

II. ACTIVITY FORMAT:

A. Tools and Materials

Brushes	Clay	Glue
Scissors	Paint	Tissue
Oak tag	Seeds	

B. Procedures for this activity (with helpful hints)

Use oak tag for the map's backing Design a map key Outline the map Fill in areas with many materials (clay, seeds, tissue paper, etc.)

265

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. <u>NAME OF ACTIVITY</u>

RELIEF MAP OF UNITED STATES

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

Opaque projector Map of United States Bristol board Cornstarch

Non-iodized table salt Food coloring Pencil

B. Resources

Relief map of United States

- C. Procedures for this activity (with helpful hints)
 - 1. Trace map of United States on large sheet of bristol board.
 - 2. Make Magic Modeling Goop -

MAGIC MODELING GOOP

2 cups table salt 2/3 cup water 1 cup cornstarch (loose) 1/2 cup water

Mix salt and 2/3 cup water in saucepan, stirring until mixture is well heated, three to four minutes. Remove from heat and add constarch which has been mixed with 1/2 cup cold water. Stir quickly. Mixture should be consistency of stiff dough. If mixture does not thicken, place over low heat and stir, about one minute, until it forms a smooth pliable mass. Leave the mix a natural white, or divide into portions and add regular food coloring until desired brilliance is achieved. Modeled objects may also be painted or decorated when dry to give surface color. Mix can be kept indefinitely if wrapped in clear plastic wrap or foil. Makes 3/4 pounds. No refrigeration is necessary.

3. Color, using food coloring, and place on map to illustrate the elevation areas of United States.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

Profile Map showing businesses on Eleven Mile Road within Longfellow School District using 3 inches for each block.

II. ACTIVITY FORMAT:

Α. Tools and Materials

> Large white paper Pencil Marking pencil Ruler

Yardstick Map of Royal Oak Black construction paper

Resources Β.

Map of Royal Oak

Procedures for this activity . C.

- Draw a scaled map of Eleven Mile Road and intersecting streets. 1.
- Using black construction paper make pictures of businesses. 2. Paste in appropriate place on map. 3.
- Discuss role of employees in these establishments.
- It's good to supply a picture of the district to be mapped 4. as part of a unit on photography.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. NAME OF ACTIVITY

PRODUCT MAP OF MICHIGAN

II. ACTIVITY FORMAT:

A. Tools and Materials

Large white paper Opaque projector Map of Michigan Magazines for pictures Michigan reference book

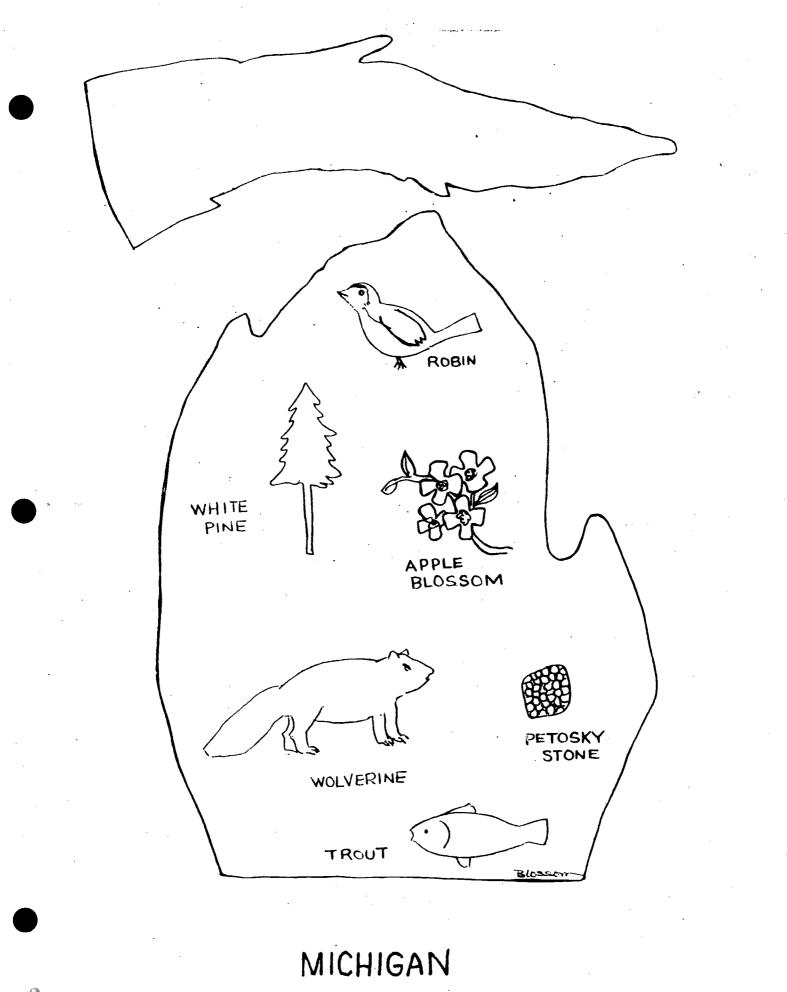
Crayons Pencils Scissors Marking pencil

B. Resources

Exploring Michigan by Delphine Newcomb

- C. Procedures for this activity
 - 1. Using opaque projector, trace large map of Michigan on white paper.
 - 2. Cut pictures of produce raised and products manufactured in Michigan and paste on map.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



269

•

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:	•	MICH I GAN
--------	---	-------------------

GRADE LEVEL: 3-4

GENERAL OVERVIEW: The pur between

The purpose of this unit is: a) to calculate distances between cities; b) to learn the history of Michigan, the important people from Michigan, what Michigan offers the world in economics and industry.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials</u>:

Films: History in Motion When Michigan Was Young

Filmstrips:

Manufacturing Today in Michigan Natural Resources of Michigan

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

Greenfield Village State Police Office

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

State Highway Department AAA Road Service State Policeman

4. Activities:

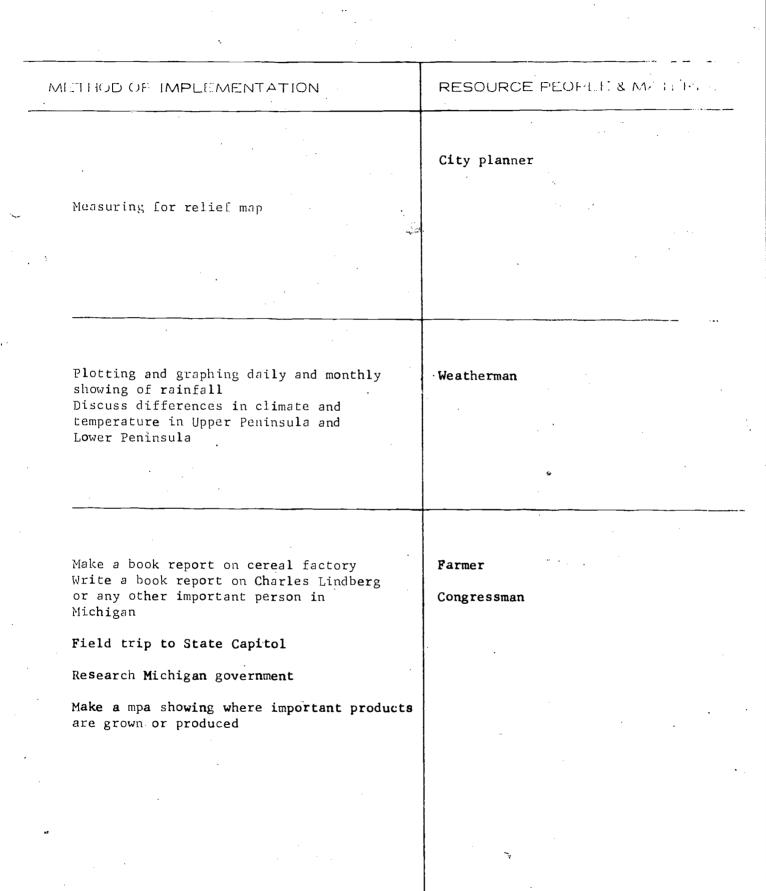
Makin**g Mic**higan Relief Map Vehicle Models Make Cherry Tarts

UNIT TITLE:

MICHIGAN

CONCEPTS	BEHAVIORAL OBJECTIES
	As a result of this unit, each child will be able to:
Math	
Calculate distances Graph Measurement	Calculate the distance between 5 major cities in Michigan
Science	
Climate Temperature Geography	Plot a graph or map showing temperature, rainfall, geographical features of Michigan
Social Studies	
History of Michigan	List at least 5 unique features of
Economics and Industries	Michigan Describe at least 5 important cities in Michigan List at least 4 important historical
Government	events in Michigan List 5 important state offices
	List 5 important products produced in Michigan





UNIT IIILE: MICHIGAN (continued)

ONCEPTS	BEHAVIORAL OBJECTIVE
<u>Art</u>	As a result of this unit, each child will be able to:
Coloring Mural Drawing	Make mura l on Michigan
ommunication Skills	· · · · · · · · · · · · · · · · · · ·
W ri ting Reading Reporting	Gather data on tourist attractions in Michigan
areer/Self-Awareness	
Services provides distributing Managing controlling Producing raw materials processing	Recall at least 5 services provided by State Identify at least 10 major occurations in Michigan Identify 5 raw materials and how they are used to produce products in Michigan
Facilitating personalized planning and decision making	Explain why knowledge of one's self is necessary for one to effectively manage his life (e.g., he must know what his strengths and needs are in order to capitalize on the former and meet the latter)

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Make travel posters promoting trips to Michigan Make collage on Michigan products	Travel agent
Write reports Write stories and poems about Michigan Write letters to State Department of Commerce	Newspaper reporter
Make booklet called "Our Michigan"	
Role play major occupations in Michigan Play "What's My Line" as on TV show (use occupations of Michigan people)	State Policeman
Visit State Police Department	

Full Fact Provided Say ERIC

MICHIGAN

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

VEHICLE MODELS (Putting Together)

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

Several various models EX. plane, car, truck, boat, etc. Model glue Newspaper

B. Human Aides and Resources

College boys or fathers to help read directions

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

- 2. You should have lots of help or have pre-read all instructions so you can help when necessary.
- 3. Make sure desk or table tops are covered so glue doesn't ruin them.

275

- 4. Have plenty of glue.
- 5. Turn the kids loose to put models together.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

MAKING MICHIGAN RELIEF MAP

11. ACTIVITY FORMAT:

A. Tools and Materials

Sawdust Wheat paste Board for base Paint

B. Procedures for this activity (with helpful hints)

- 1. Mix 1/2 sawdust and 1/2 wheat paste.
- 2. Shape sawdust into Michigan map and form elevation, lakes and rivers.

· • • •

3. Paint.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. NAME OF ACTIVITY

MAKING CHERRY TARTS (for 60 children)

II. ACTIVITY FORMAT:

.

A. Tools and Materials

2 cans cherry pie filling (l can makes 20 tarts) l can apple pie filling 6 cans biscuits (l0 to a can) Flour

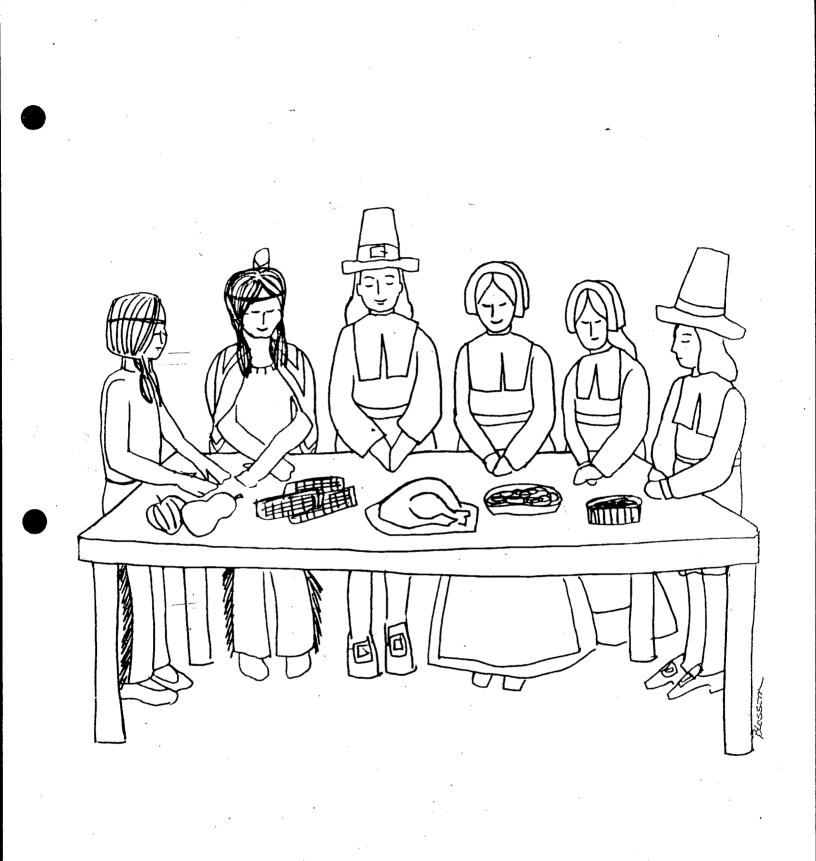
- B. Procedures for this activity
 - 1. Roll out each biscuit on floured plastic.
 - 2. Put in 4 cherries or 4 apple slices.
 - 3. Fold over and pinch together.
 - 4. Have each child place his tart in tiny aluminum pan with name on bottom.

MICHIGAN

5. Bake in 425 degree oven for ten.minutes.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

1.0



THANKSGIVING



278

ú

, É

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

268

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: HOLIDAYS - THANKSGIVING

GRADE LEVEL: 3-4

14-17 14-17

<u>CENERAL OVERVIEW</u>: A study of colonial times, particularly concerning the preparation of food and the Pilgrim-Indian relationship. Development of an appreciation of work, then and now.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials</u>

Books: <u>Story of the Navajos</u> <u>The Pilgrims Knew</u> <u>The Thanksgiving Story</u> <u>Pelli's New Suit</u>

Films: Colonial Children

Filmstrips:

Cooking in Colonial Days (on Indians) from Lincoln M.C.---

Realia: Toaster Butter Churn Candle Molds Flat Iron Record - Indian Dances

2. Field Trips:

Farmer's Market to buy pumpkins for pie

3. Human Resources:

Parents

 Activities: Role playing experiences: Indians Dancing First Thanksgiving Pageant Thanksgiving Dinner
 1. Making costumes (Indians, Pilgrims) 6. Candle dipping 2. Making butter 7. Making corn bread 3. Making pumpkin pies 8. Making applesauce 4. Thanksgiving dinner and Indian dance 9. Murals 5. Make looms 10. Weaving

CONCEPTS	BEHAVIORAL OBJECTIVES
Communication Skills	As a result of this unit, each child will be able to:
Some der ter ter ter ter ter ter ter ter ter t	
Dictation	Dictate ideas for a group or individual
Reading	story Read back charts, stories that have been dictated in whole or part, in a group
Oral Communication and listening	or individually Listen to others' ideas in planning while working together during dinner, etc. Contribute to a sequence picture story
·	
Mathematics	
D ry and liquid measurement s Counting	Use measurement of liquid and dry materials in recipe
,	Plan shopping lists - including costs - for festival
Social Studies	
Colonial life Indian life Wo r king together	Draw or tell about some aspects of Indian and colonial life Work with a group planning and carrying out an activity
•	
	· "er

280

METHOD OF IMPLEMENTATION RESOURCE PEOPLE & MATERIALS Produce a group story and charts Parents with hobbies Brainstorm. Teacher Making applesauce Making candles Paper weaving - place mats Making a mural of the story Making a mural of roles of Indians Making a mural of roles of Pilgrims Making a mural of tools used then - now Role playing about Indian customs Role playing about Pilgrims

UNIT TITLE: HOLIDAYS - THANKSCIVING (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
<u>Science</u> Changing forms of matter	As a result of this unit, each child will be able to: Report how matter is changing to
Machines Historical tools	another form while cooking Compare historical tools to those used today
Art Weaving Composition Costumes	Cut and paste Use patterns to make a costume Dip candles Weave with paper strips
Career/Self-Awareness	
People and their job roles Production and consumption Management and planning	Work together on a project Tell jobs important to the Pilgrims Describe what the Pilgrims and Indians learned from one another Plan a Thanksgiving meal
Recognizing emotions and attitudes in self	Compare and contrast how you feel in a specific situation and how another person thinks you feel, based on his observation of you
<u>IC</u>	282

	H ol idays - Thanksgiving	Greenfield Village Staff
	Making Indian costumes	Historical Museum
	Making Pilgrim costumes	Children's Museum (Detroit)
	Learning and performing Indian dances	Royal Oak Historical Society
	Planning the dinner - find recipes	Costume shop
	Preparing Thanksgiving dinner	-
	Making butter	
·	Making pumpkin pies Making corn bread	

METHOD OF IMPLEMENTATION

ERIC.

RESOURCE PEOPLE & MATERIALS

NOVEMBER ____, 19____

DEAR PARENTS,

THE ______GRADES ARE PLANNING A MINI-THANKSGIVING DINNER FOR _______. THE CHILDREN WILL BE GOING HOME FOR LUNCH AS USUAL. IF POSSIBLE, HAVE THEM WEAR DARK CLOTHING TO COMPLETE OUR HANDMADE INDIAN AND PILGRIM COSTUMES.

OUR MENU WILL CONSIST OF TURKEY, (the modern rolled variety!) APPLESAUCE, CORN BREAD, BUTTER, PUMPKIN PIE (ALL CLASSROOM PRODUCED), CORN AND CIDER.

IF YOU WISH YOUR CHILD TO PARTAKE OF OUR "FEAST," PLEASE SIGN AND RETURN THE PORTION BELOW. NO COST IS INVOLVED AS WE ARE BEING FUNDED BY PROJECT L.E.T. (LEARNING EXPERIENCES IN TECHNOLOGY).

THANK YOU FOR YOUR COOPERATION.

__HAS PERMISSION TO TAKE PART IN THE DINNER.

PARENT"S NAME



I. NAME OF ACTIVITY

MAKING COSTUMES

II. ACTIVITY FORMAT:

A. Tools and materials

Construction paperMacaroniPatternsYarnScissorsBeadsPaste

B. Procedures for this activity (with helpful hints)

Children used teacher made patterns to construct pilgrim costumes one afternoon and Indian costumes another day. Before the dinner they signed up to wear one or the other so we had some of each at the dinner. Pilgrim costumes consisted simply of hats, collars, and cuffs. Indians wore head dresses and hand painted macaroni and bead necklaces. Macaroni breaks easily but is so much fun it's worth it!

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

285

I. JAME OF ACTIVITY

MAKING BUTTER

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

2 pints whipping cream Baby food jars Large bowl

Yellow food coloring Salt Spoon

B. Human Aides and Resources

Parents

C. Procedures for this activity (with helpful hints)

- 1. Fill jars 1/3 full with cream.
- 2. Shake 15-20 minutes -Until butter separates.
- Collect all butter in a large bowl. Pour off remaining milk. Rinse several times with water. Pour off water.
 Add salt to taste.
- 5. Add food coloring.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

286

20.

I. NAME OF ACTIVITY

PUMPKIN PIE

II. ACTIVITY FORMAT:

A. Tools and Materials (See attached recipe)

B. Human Resources

Parents .

C. Procedures for this activity

Divide the 20 children in three groups. One group making crust for four pies and the other two groups each making filling for two pies.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



. Y Same

287

1905-06

SPRY'S "NO-PATCH" PASTRY

(Double Crust)

2 1/4 cups sifted flour 1 teaspoon salt

3/4 cup plus 2 tablespoons Spry 1/3 cup cold water

Mix flour and salt in a bowl. Cut in 2/3 of Spry until fine as meal. Cut in remaining Spry to size of large peas. Sprinkle water, 1 tablespoon at a time, over mixture. Toss lightly with a fork. Lightly form dough into a smooth ball. Divide in half; form into 2 balls. Place dough on lightly floured board. Flatten slightly. Roll out from center to form circle 1/8 inch thick. Ease dough into pie pan; trim even with outer edge of pan. Roll out remaining dough; cut slits to allow steam to 2scape. Lay over filled pie shell. Trim; fold under bottom crust. Seal by fluting edge.

<u>Recipe for Pumpkin Pie Filling</u> (2 10" pies enough for 1 class - we doubled this to serve 2 classes)

1 can pumpkin (large)
6 eggs, slightly beaten
2 cups light brown sugar
1 teaspoon salt

2 teaspoon cinnamon 1/2 teaspoon cloves 1/2 teaspoon nutmeg 1/2 teaspoon ginger 2 cups evaporated milk

Combine eggs, sugar, salt, and spices and beat well. Blend in pumpkin. Add milk and beat well. Turn into two pastry-lined pie pans. Bake at 450 degrees for 10 minutes, then at 350 degrees for 40 - 45 minutes Pies are done when knife, inserted in center, comes out clean.



I. <u>NAME OF ACTIVITY</u>

بر مع

THANKSGIVING DINNER AND INDIAN DANCE - For 40 children - 2 classes

II. ACTIVITY FORMAT:

A. Tools and Materials

Paper plates Napkins Plastic forks and Spoons

Cups Placemats woven from paper by children

Menu

2 turkey rolls corn (frozen) applesauce corn muffins and butter

cider pumpkin **p**ie ł

201

B. Human Resources

Five (5) mothers

C. Procedures for this activity

The two classes of children had signed up for set up or clean up and helped the mothers in crews of five while the teachers remained in our room with the other children putting on costumes, etc. The dinner took place in the gym. We did an Indian dance we had learned and said a short blessing before taking our places at the table. Children from the two classes sat across from one another for conversation concerning their respective recipes, compliments regarding such, etc.



I. NAME OF ACTIVITY

CANDLE DIPPING

II. ACTIVITY FORMAT:

A. Tools and Materials

2 candle dipping vats 1 1/2 blocks of paraffin Crayon bits (2 colors) for tinting Wick

B. Human Resources

One mother

C. Procedures for this activity

Discuss the procedure beforehand.

- 1. Chop up the wax
- 2. Melt the wax in the two vats
- 3. Spread newspapers on and around two large tables
- 4. Dip the candles
- 5. Hang the candles to dry

One vat was placed on each of the two tables. Ten children surrounded each table, were given wicks, reviewed the procedure, designated the dipping point, and proceeded walking around table drying - dipping. An adult stationed at each table. Time of actual dipping approximately 1/2 hour.





CHRISTMAS



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: HOLIDAYS AND CUSTOMS - CHRISTMAS

3-4

CRADE LEVEL:

GENERAL OVERVIEW: The children, all new to L.E.T., and most of them uninitiated in the use and care of basic tools, need to have practical experience in using tools that would give them a finished product that they would be proud to take home at their first attempt.

> This unit evolved from social studies, science, language arts, music and art. Students were enthusiastic about the holiday season activities. This was integrated with a study of the occupations involved.

TEACHING/LEARNING RESOURCES:

1. Reference Materials:

Books: McCall's Book of Paper, Wood, Paint Crafts

Films: Film and Booklets - A.B.C.'s of Tools General Motors Corporation

2. Field Trips:

Lumber yard Fabric shop Department store S.E.O.V.E.C. Greenfield Village International Institute Detroit Historical Museum

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

Parents Student helpers College students Activities:

4.

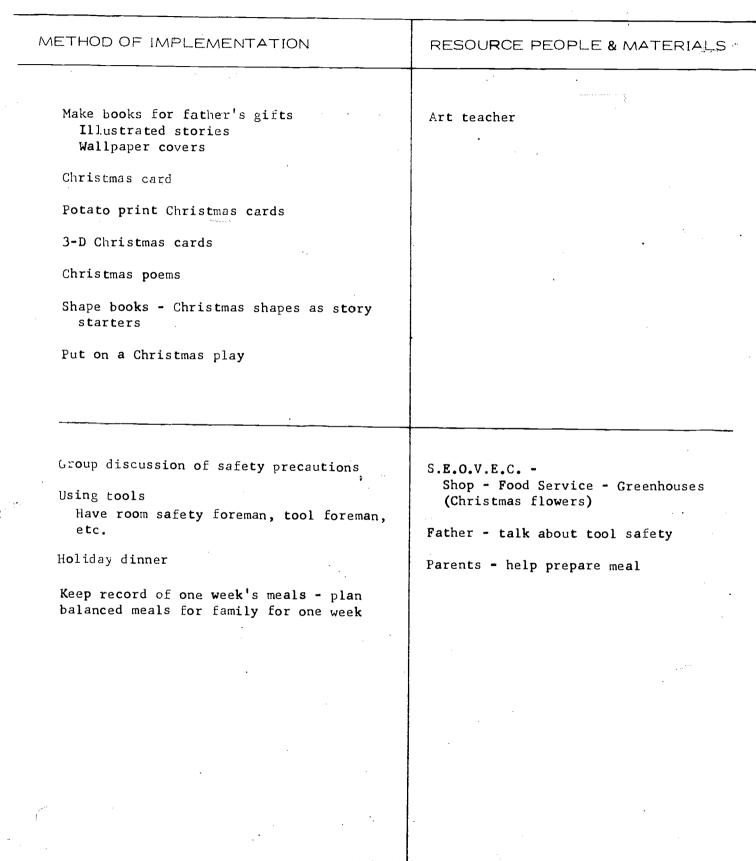
Holiday cookie making Holiday dinner Construction of keyboards Make a tie Make an apron Do creative stitchery Make a picture frame Design a picture Wooden Christmas tree ornaments Plaster of Paris pins Holiday pencils Yarn dolls Felt Christmas tree ornaments Egg carton wastebaskets Styrofoam tree ornaments Role play - workers producing a product on a custom basis and compare this to quantity production of the same product Potato Print Christmas cards Child silhouettes Make butter (see Colonial unit)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Communication Skills	
Composition	Apply the rules of letter writing Describe projects completed
Proofreading	Prepare written invitations
Letter writing	Send thank-you notes
Po etry - Haik u	W rite a Christmas gr eeting in Haiku poetry fo rm
Interviewing	Write 2 questions for an interview
Role playing	Take part in a role play activity
Science	
Simple machine	Demonstrate ability to use tools as evidenced by completed woodworking project
Knowledge of basic food groups	List the basic food groups
Planning a well-balanced meal	Pl an a balanced meal Prepare a meal
	γ······

294

38

E



UNIT TITLE: HOLIDAYS AND CUSTOMS - CHRISTMAS (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Mathematics	
Measuring	Measure raw materials to be used in production
Research costs of supplies	Compute cost of materials needed for
Purchase materials	production
· · · · · · · · · · · · · · · · · · ·	
Art	
Arts and crafts	Construct crafts of different materials
Holid ay gift s	
Christmas decorations	
- · · ·	
Social Studies	
Customs of the holiday season	Read and report about customs and traditions associated with Christmas and Hanukkah
History of tools and and	
History of tools, archaeology, man's adaptation to his environment	Illustrate a simple chart of early mun's tools or describe them in several brief paragraphs
Raw materials - where did the material come from?	
Economics - cost of items	
Human Relations - working with people	296

	T
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
Measure materials used	Students from SEOVEC store
	, ·
Compute needs and distribution of foods for meal	Department Store salesperson
Make menus for a restaurant (holiday menu)	
Research newspaper and magazine ads for food prices	
Collages of food prices	
· · · · · · · · · · · · · · · · · · ·	
Make clay candle holders - designs of different countries	College students
Produc tion o f Holiday crafts . Santa faces - styrofoam	
Wall hangings - Christmas scenes, objects	Parent
Design ornaments - cut out of plywood, paint	Art teacher
Country reports - including customs	Parent - slides of other countries
Discussion and research	International Institute speaker
TV program - presenting customs of countries	
Film strips - movies	
Murals of other lands	
Puppet shows	
	•

Full Text Provided by ERIC

CONCEPTS BEHAVIORAL OBJECTILES As a result of this unit, each child will be able to: ٤. <u>.i.</u> Holiday songs Sing many of the holiday songs and Christmas carols Career/Self-Awareness Munaging Produce a product and manage the production system Producing Christmas jobs Identify 10 jobs related to Christmas season Building self-confidence Describe how you feel when you are able to improve your performance of a particular skill

WIT TITLE: HOLIDAYS AND CUSTOMS - CHRISTMAS (continued)

. M	ETHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	Christmas carols Musical Play - Wake Up Santa	Music teacher Film strip - How we Got Our Christmas Carcls
	Managing/planning - logical steps from raw material to complete project	Parents
•5 .	Producing - pride in hand crafted product vs. mass produced product Make collage - magazine pictures - jobs	College student helpers
	related to Christmas	
•		
FRIC	299	

288

.

 $\langle \cdot \rangle$

I. NAME OF ACTIVITY

CHRISTMAS DECORATION USING TAG PAPER, FOIL AND STYROFOAM

II. ACTIVITY FORMAT:

A. Tools and Materials

```
Needle
Scissors
Styrofoam cutter
Tag paper
Green foil
Styrofoam
Thread
```

B. Procedures for this activity (with helpful hints)

- 1. Fold foil to cover tag paper
- 2. Make covered paper into circle
- 3. Staple paper into circle
- 4. Make one pattern of tree, angel, star, candy cane, etc.
- 5. Cut figure from styrofoam
- 6. Thread needle
- 7. Put thread through styrofoam figure and then through foil ring
- 8. Leave loop of thread to use as tie on tree
- 9. The styrofoam figure should hang free inside the ring



I. NAME OF ACTIVITY

CONSTRUCTION OF KEYBOARDS (OR MITTEN TREES) (see attached)

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" Find and medium sandpaper Colored enamel

B. Human Aides and Resources:

College students

C. Procedures for this activity:

Have plywood pre-cut to 8" x 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!

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



2 brushes

PEG KEY BOARDS

<u>Boards</u>

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.

6 brushes

PIANO KEY BOARDS

<u>Boards</u>

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

Assembling

Mark location for keys (measured real keyboard) Take clothespins apart Drill hole in one-half of pin Nail through hole into board Re-assemble clothespin

Pegs

(Use five pieces) Measure 2" for each peg. Cut 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)

<u>Clothespin Keys</u>

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

CUPHOOK KEY BOARDS

7 cup hooks Other materials same as Piano Key Board

> 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 cuphooks.

1. 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. Human Resources

Parents

C. Procedures for this activity

Follow the instructions that are included in the tie kit. These kits are available at most fabric stores.

Iron the finished product. Fold and wrap.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



CHRISTMAS

HAND	S ON ACTIV	VITY (STUDE	NT PERFORMED)		
I.	NAME OF A	CTIVITY			
	MAKING AN	APRON			
II.	ACTIVITY	FORMAT:			
	Α.	Tools and	Materials		
		l y ard of Needles I ro n	cloth	Sewing machine Thread Ironing board	
	В.	Human Res	ources		
		Parents			
	с.	Procedures	s for this acti	vity	
		 Cut 1: Cut 1: Have c it out 	children pin pa	t of newspaper. ttern on cloth and	cut

3. Use machine to turn under hem and to add tie at the top

- Add pockets if desired
 Iron the apron
- / 6. Fold and wrap

CHRISTMAS

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

CREATIVE STITCHERY

- II. <u>ACTIVITY FORMAT</u>:
 - A. Tools and Materials

B**urla**p Yarn Needles

B. Human Resources

Parents

- C. Procedures for this activity
 - 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.
 - 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 braided yarn tie at top.



tix ix

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

PICTURE FRAMES AND PICTURES

II. ACTIVITY FORMAT:

Tools and Materials Α.

Wood	Scissors	Carro	
Glu e Miter box	Furniture stain	Saws Rulers	- -
HELEE DOX	Poster board		

Β. Human Resources

> Parents College students

Procedures for this activity C.

- 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
- Cut pieces of felt to form the picture 7.
- 8. Glue felt



CHRISTMAS

NAME	١v
3. The distance around a rectangle, square, or triangle is called its perime Show 2 different ways to find the perimeter of your picture frame. (1) (2) 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? 9. What tool is used to cut the corners for the picture frame? 9. What time did you start this activity?	
3. The distance around a rectangle, square, or triangle is called its perime Show 2 different ways to find the perimeter of your picture frame. (1) (2) 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 6. What tools did you use for this project? 7. What tool is used to cut the corners for the picture frame? 7. What tool is used with a miter box? 7. What time did you start this activity?	
3. The distance around a rectangle, square, or triangle is called its perime Show 2 different ways to find the perimeter of your picture frame. (1) (2) 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? . What tool is used to cut the corners for the picture frame? . What tool is used with a miter box? . What time did you start this activity?	
Show 2 different ways to find the perimeter of your picture frame. (1) (2) 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? • What tool is used to cut the corners for the picture frame? • What kind of saw is used with a miter box? • What time did you start this activity?	
Show 2 different ways to find the perimeter of your picture frame. (1) (2) (1) (2) (2) (2) (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? (1) What time did you start this activity?	
(1) (2) 4. How long is the piece of wood you need for your picture frame?	luer.
 4. How long is the piece of wood you need for your picture frame?	
 How long is the piece of wood that was purchased?	
 How long is the piece of wood that was purchased?	
 How long is the piece of wood that was purchased?	
 How long is the piece of wood that was purchased?	
 How long is the piece of wood that was purchased?	
 How many picture frames can we cut from this piece of wood?	
 List the materials you used for this project	
 What tools did you use for this project? What tool is used to cut the corners for the picture frame? What kind of saw is used with a miter box? What time did you start this activity? 	
 What tool is used to cut the corners for the picture frame?	
 What tool is used to cut the corners for the picture frame?	
 What tool is used to cut the corners for the picture frame?	
What kind of saw is used with a miter box?	
What kind of saw is used with a miter box?	
. What time did you start this activity?	
What time did you stop working on this activity?	
How much time did you spend on this activity?	·····
. If you were doing this activity (making picture frames) on an assembly line, what kind of jobs would there be?	

7

I. <u>NAME OF ACTIVITY</u>

HOLIDAY COOKIE MAKING

II. ACTIVITY FORMAT:

A. Materials

2 1/2 cups sifted flour 1/4 teaspoon baking powder 1/2 teaspoon salt 1 cup shortening 2 teaspoon vanilla 1/2 cup sifted sugar 3 or 4 tablespoons milk

B. Human Resources

Parents

C. Procedures for this activity (with helpful hints)

Divide students into four groups - each group makes a recipe of cookies.

. Ander 1 di

÷

Procedure

<u>Sift</u> dry ingredients. <u>Mix</u> shortening, vanilla, and sugar until creamy. <u>Add</u> dry ingredients and milk alternately. Refrigerate at least two hours. <u>Roll</u> out 1/4 inch thick. <u>Bake</u> on ungreased sheets for 15 minutes at 350 degrees.





I. NAME OF ACTIVITY

HOLIDAY DINNER MENU

II. ACTIVITY FORMAT:

Β.

A. Tools and Materials

Hot plateCooking toolsDisposable tablewareIngredientsOven roasterIngredients

Human Aides and Resources

Parents

C. Procedures for this activity (with helpful hints)

Divide class into four groups. Each group prepared two or more items for the dinner.

Turkey Dressing Cranberry Sauce Baked potatoes

Corn Bisuits Butter Milk

Cookies Jello

I. NAME OF ACTIVITY

WOODEN CHRISTMAS TREE ORNAMENTS

II. ACTIVITY FORMAT:

> Α. Tools and Materials

Saw	Paint and brush	llamaa
String		Horse
Jering .	Drill	Clamp

Β. Human Resources

Parents

Procedures for this activity С.

- 1. Student drew picture of ornament on wood. It is helpful to first have a pattern to
- trace or look at. Christmas cookie cutters make good patterns. The design was then cut out - using a saw. 2.
- 3. Next-the ornament was painted on both sides. Some used paint and others used magic markers of different colors.
- 4. Last of all the ornaments were shellaced.
- 5. Then a string was put through hole in top so the ornament could be hung on the tree.
- 6. After drying, these were wrapped for Christmas gifts to be given to the parents.





1. NAME OF ACTIVITY

PLASTER OF PARIS PINS

II. ACTIVITY FORMAT:

A. Tools and Materials

Plaster of Paris Plastic spoon Small safety pin

B. Procedures for this activity (with helpful hints)

- 1. Mix by using twice the amount of water as plaster of Paris.
- 2. Each child dips a spoonful of this.
- 3. This must set for a few minutes until thick and then the pin is inserted, with open side up.
- 4. As soon as this is completely dry, the pin easily comes out of the spoon.

5. It is then painted or magic marker may be used.

6. After this dries it may be shellaced.



I. <u>NAME OF ACTIVITY</u>

HOLIDAY PENCILS

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

Pencils Pipe cleaners Colored tape Small Santa or angel decoration

B. Procedures for this activity (with helpful hints)

- 1. Attach small decoration to pencil with a piece of pipe cleaner.
- 2. Roll colored tape on pencil beginning at top, to hold ornament on.
- 3. Roll tape down pencil to an inch or so from bottom.



I. NAME OF ACTIVITY

YARN DOLLS

303

II. ACTIVITY FORMAT:

A. Tools and Materials

Yarn Cardboard Felt Scissors

B. Procedures for this activity (with helpful hints)

- Roll yarn over ends of small piece of cardboard. May use desired thickness.
- 2. Tie a small piece of yarn around the top for the head and then in the middle for the body.
- 3. Cut some of the strands and pull out for the arms and also for the legs.
- 4. Small pieces of felt are cut out and used for facial features.

.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

.

CHRISTMAS

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

FELT CHRISTMAS TREE ORNAMENTS

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

FeltPencilSequinsScissorsGlueChristmas card patternStringString

B. Procedures for this activity (with helpful hints)

1. Choose color and size of felt needed.

2. Draw design on piece of felt and cut it out.

3. Glue on designs of sequins, felt, etc.

4. Attach a string for hanging on tree.

I. NAME OF ACTIVITY

EGG CARTON WASTE BASKET

11. ACTIVITY FORMAT:

B.

A. Tools and Materials

8 styrofoam egg cartons (for each waste basket) yarn cardboard large pie tin paper punch

2

Procedures for this activity (with helpful hints)

- 1. Cut top off egg cartons and use only bottom half.
- 2. Put together with yarn, one piece of yarn is tied at top and one at the bottom.
- 3. A pie tin or round piece of cardboard is used for the bottom of the basket.

T

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

STYROFOAM TREE ORNAMENTS

II. ACTIVITY FORMAT:

> Α. Tools and Materials

> > Styrofoam balls Pins Gold string Beads

Lace or ribbon Stars Sequins

Procedures for this activity (with helpful hints) Β.

- 1. Decorate white styrofoam balls with an assortment of stars, sequins, beads, lace or ribbon.
- 2. Put them on with small straight pins
- 3. Put a string on so it can be hung on tree.



Ι. NAME OF ACTIVITY

SANTA HEADS - ORNAMENT

II. ACTIVITY FORMAT:

Tools and Materials Α.

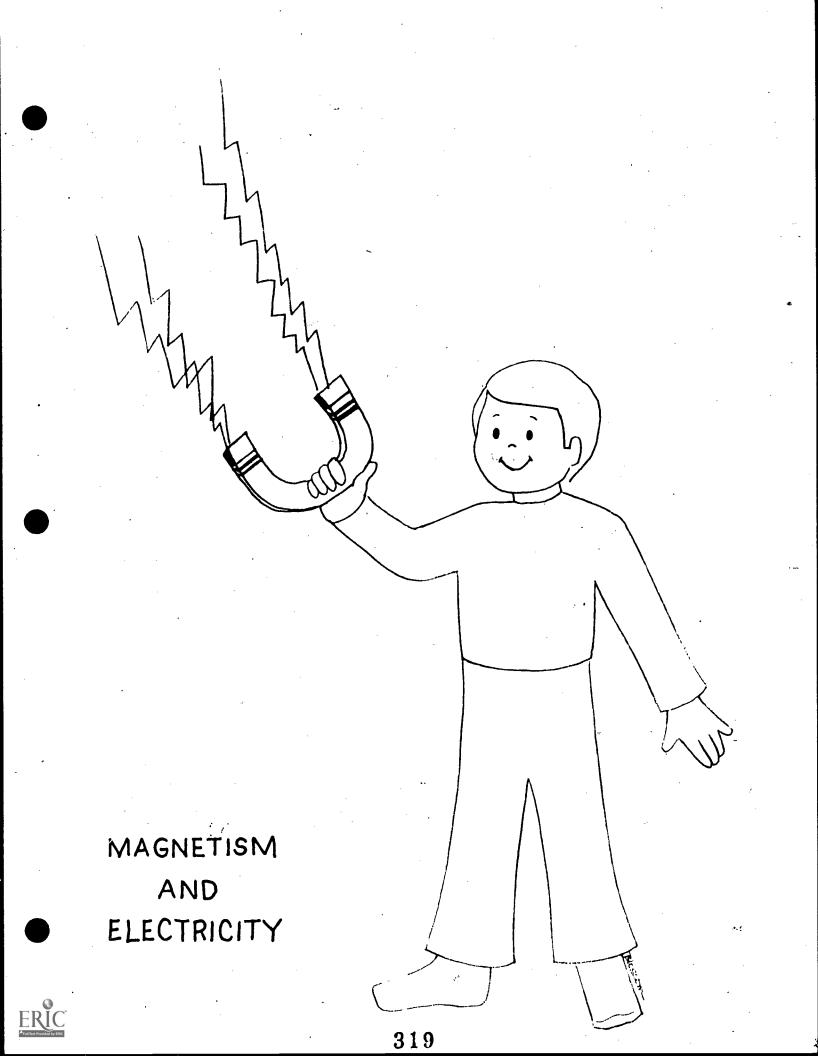
> Toilet paper roll Red tissue paper Glue Cotton or white paper White yarn

B. Procedures for this activity (with helpful hints)

- Take empty roll and wrap in red tissue paper. 1.
- Cut red hat of tittue and glue to one end pinch of 2. cotton on tip.
- 3.
- Cut eyes and brows of white paper or cotton also beard.
- Put white yarn loop on hat. 4.







SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: ELECTRICITY AND MAGNETISM

ب

GRADE LEVEL: 4

GENERAL OVERVIEW: Six weeks science unit dealing with electricity and magnetism.

TEACHING/LEARNING RESOURCES:

1. Reference Materials:

Books: Magnetism and Magnets (How and Why Books)

· • • •

Films: Electricity - How It Is Generated Electricity - Principles of Safety Introduction to Electricity Learning About Electric Current How to Stimulate Your Science Program - by Vessel and Wong

2. Field Trips:

Greenfield Village (Henry Ford Museum) Detroit Historical Museum

3. Human Resources:

Electrician - to demonstrate construction of telegraph or other electrical device Parents and students Head of Royal Oak Science Department Call Detroit Edison for resources and materials

4. Activities:

Electric copper plating	Magnetic boat
Eleven cent battery Destroying a magnet with heat Earth conducts electricity	Creating compass needles Electrolysis
	Making an electric light bulb

1.2. ...

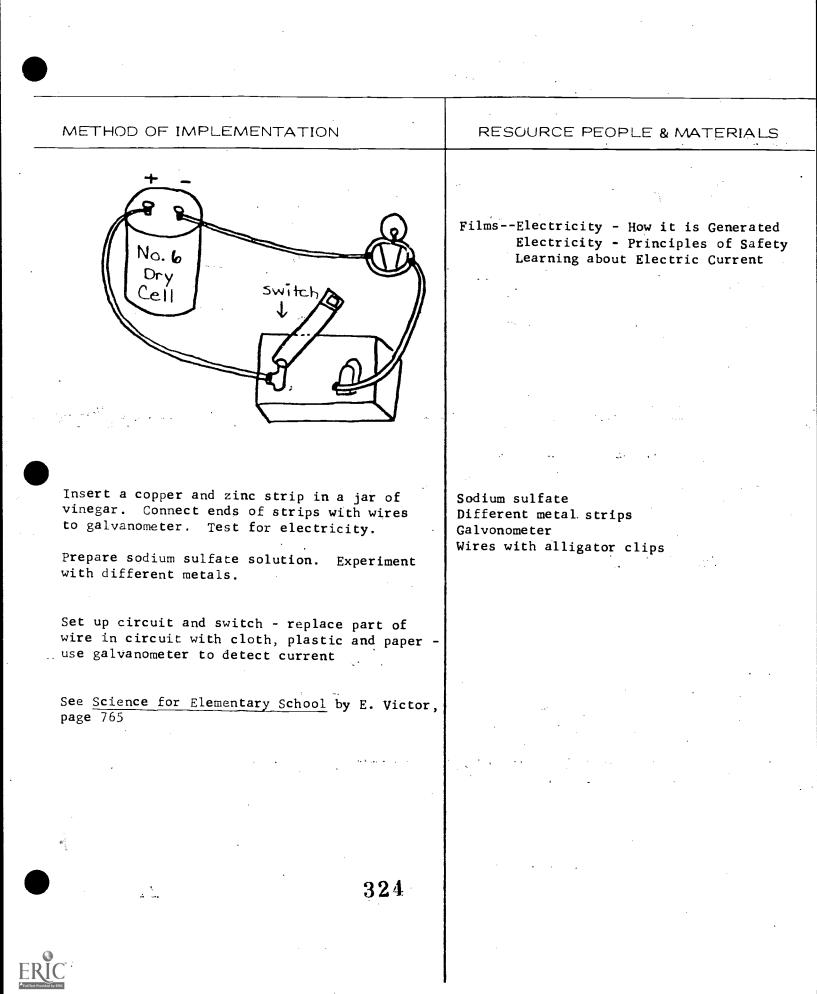
UNIT TITLE: ELECTRICITY AND MAGNETISM

.

CONCEPTS	BEHAVIORAL OBJECTIVES
· .	As a result of this unit, each child will be able to:
Science	
The space around which the force of a magnet acts is called the magnetic field	Manipulate iron filings and magnet to show magnetic field
Magnets attract iron, steel, cobalt, and nickel	List magnetic and non-magnetic materials
Magnetic lines of force can travel through some materials Magnets have many uses	Identify materials that line of force penetrates Name uses of magnets
· · · · ·	
Magnets can be made from other magnets	Induce a magnet
An electro-magnet can be made magnetism can be obtained from electricity	Make an electro-magnet
Static electricity is produced by friction	Produce static electricity
¢	
	321
ERIC	

	•
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Illustrate magnetic field with iron filings After getting a magnetic field on the pre-waxed tagboard, melt the wax with ultrared light	Pre-waxed 9" x 12" piece of tagboard Iron filings Ultrared light
Children will test numerous objects with a magnet	Electrician
Experimentation with magnets and materials	Detroit Edison and resource materials
Bring in objects such as magnetic screwdrivers, magnetic bulletin board, latches, compass, etc.	Head of Royal Oak Science Department
Stroke a nail with a permanent magnet in one direction and pick up magnet materials with induced magnet	Book: Magnetism and Magnets
Wrap'wire coil around nail and attach to battery. Test for effectiveness of electro- magnet - test for north and south poles	
 a. Suspend 2 balloons from string and rub balloons with wool cloth. Gently push balloons together and they should repel each other b. Comb hair repeatedly and pick up scraps of paper with static electricity in comb c. Make pith balls from aluminum foil. Secure 	Balloons String Comb Tissue paper Aluminum foil Silk thread Sheet metal strip Pieces of chamois Pieces of plastic wrap
silk thread inside foil. Rub metal strip with chamois or plastic wrap and observe.	rieces of plastic wrap

CONCEPTS BEHAVIORAL OBJECTIVES As a result of this unit, each child will be able to: Current electricity is produced by Make an electrical circuit with a switch flow of electrons en en la com Electricity is produced by chemicals Make a ci lical battery Conductors vs. non-conductors Experiment with conductors and non-conductors Electricity can plate materials Copper plate a key 323



UNIT TITLE:

ELECTRICITY AND MAGNETISM (continued)

	•	
0.0		
	NCEPTS	BEHAVIORAL OBJECTIVES
	·· · · · · · · · · · · · · · · · · · ·	As a result of this unit, each child will be able to:
Car	eer/Self-Awareness	
	Functions -	Identify 5 jobs dependent on electricity
	Goods	Identify those 5 jobs dependent on electricity
	Services	as being goodsproducing jobs or service producing jobs
•	Identification of personal values	Identify 3 aspects of your life that are important
£		to you and which you would not want to give up (e.g., opportunity to be creative, to engage in sports, to participate in indoor activities)
Soc	ial Studies	
	Thomas Edison made many contri- butions	Evaluate life and importance of Thomas Edison
	Inventors of electrical equipment	List at least 2 inventors of electrical equipment
	· · · ·	
	•••	
. *		
	•	

325

Ċ,

E

 a. Find picture in magazine showing people using electricity on the job. b. Children can list jobs that would not exist without electricity. a. See movie - Boyhood of Edison b. Make a chart of Edison's contributions c. Write a report on inventors in field of electricity 	ME	THOD OF IMPLEMENTATI	ON	RESOURCE PEOPLE & MATERIALS
 using electricity on the job. b. Children can list jobs that would not exist without electricity. a. See movie - Boyhood of Edison b. Make a chart of Edison's contributions c. Write a report on inventors in field of electricity 		· · · ·		· · · · · · · · · · · · · · · · · · ·
 a. See movie - Boyhood of Edison b. Make a chart of Edison's contributions c. Write a report on inventors in field of electricity 	а.	Find picture in magazine sh using electricity on the jo	owing people b.	
b. Make a chart of Edison's contributions c. Write a report on inventors in field of electricity *	b.	Children can list jobs that exist without electricity.	would not	
b. Make a chart of Edison's contributions c. Write a report on inventors in field of electricity				
b. Make a chart of Edison's contributions c. Write a report on inventors in field of electricity				
b. Make a chart of Edison's contributions c. Write a report on inventors in field of electricity	a.	See movie - Boyhood of Edisc	on	
electricity	b.			
326	с.	Write a report on inventors electricity	in field of	
326		ч Ч		
326		· · · · · · · · · · · · · · · · · · ·		
326				
32 6			· · · · · · · · ·	
326	·			
			326	

.1 NAME OF ACTIVITY

ELECTRIC COPPER PLATING

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

Cooper sulfate crystals Dilute sulfuric acid Cooper strip Tumbler of water

Copper bell wire No. 18 House key Pencil 2 dry cells

Β.

Procedures for this activity (with helpful hints)

- Put a heaping tablespoon of copper sulfate into a glass 1. tumbler of warm water and stir vigorously until the copper sulfate dissolves.
- 2. Then add a few drops of the sulfuric acid.
- Obtain two pieces of copper bell wire (No. 18), each 3. piece about 24 inches long.
- 4. Remove quite a bit of the insulation from the end of one piece of wire and wrap a few turns of bare wire around one end of the copper strip, making sure you have a good contact between the strip and the wire.
- 5. Bend the copper strip so it will hang overa pencil placed across the rim of the tumbler.
- 6. Wrap the bare end of the second piece of wire around a house key and suspend the key in the copper sulfate solution by wrapping the wire around the pencil.
- Now connect the other bare ands of both wires to two-7. dry cells connected in series, as shown in the diagram, making sure that the key is connected to a negative terminal and the copper strip is connected to a positive terminal.
- Allow the current to flow for 15 minutes, and then 8. disconnect the wires and remove the key. 9.
- The key will be coated with copper.

RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION) III.

I. NAME OF ACTIVITY

MAKING A MAGNETIC BOAT

II. ACTIVITY FORMAT:

A. Tools and Materials

Block of wood or styrofoam Iron nail Water-proof tape or cement Aluminum pan Saw

File Sandpaper Paint bru**s**hes Magnet

B. Procedures for this activity (with helpful hints)

- 1. Use a toy boat, or make one out of wood or styrofoam.
- 2. Cut the head off an iron nail.
- 3. Cut a short slot in the bottom of your boat. The slot should be just big enough for the nail to fit into. If you're using a plastic boat, attach the nail with water-proof tape or cement.
- 4. Use bricks or wood blocks to prop up an aluminum pan, so that you can move your hand beneath it. Pan should be big enough for boat to float.
- 5. Move a magnet around on the underside of pan to make boat move.

Instead of a boat, apply the same principle to another water object.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





I. NAME OF ACTIVITY

ELEVEN-CENT BATTERY

11. ACTIVITY FORMAT:

A. Tools and Materials

onte

PennySaltDimeCurrent testerBlotting paper

B. Procedures for this activity (with helpful hints)

- 1. Clean a penny and a dime.
- 2. Soak a small piece of blotting paper in salt water.
- 3. Place the wet blotting paper between the dime and penny.
- 4. Use your current tester by touching one wire to the dime, and one wire to the penny.
- 5. Is a current produced? Explain concept.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

CREATING COMPASS NEEDLES

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

Barmagnets Ping pong balls Very small test tubes Several press studs Several small screws (same number as ping pong balls) Small pieces of plasticine

Drinking glasses Dulled double-edge razor blades Small blocks of wood Several corks Several straight pins Dozen long needles

B. Producedure for this activity (with helpful hints)

COMPASS 1

Fix a magnetised needle to the pingpong ball by using a small piece of plasticine.

Fix another piece of plasticine on the other side of the ping pong ball and press the small screw into it.

Place the ping pong ball in a bowl of water (or glass) and it will float. Watch the needle swing round to the north.

COMPASS 2

Push a pin through the cork. Put the inside piece of a press stud through the middle hole of the razor blade and fix with a small piece of plasticine.

Put the hole in the press stud over the point of the pin and check the razor blade to make sure that it balances. Watch the razor blade swing round to the north.

Think of a way to mark the razor blade to show which is the "N" pole

COMPASS 3

Fix a magnetised needle to the top of the very small test tube by using a small piece of plasticine. Fix another needle into the middle of the block of wood so the point is sticking upwards. Place the test tube over the needle in the block of wood and make sure that the magnetised needle balances.

This compass needle is very sensitive and it will swing about for a long time before coming to rest.

I. NAME OF ACTIVITY

DESTROYING A MAGNET WITH HEAT

II. ACTIVITY FORMAT:

A. Tools and Materials

Bar magnet Small pair of pliers Pocket compass

Methylated spirit lamp Asbestos pad to protect the desk top A long needle

- B. Procedures for this activity (with helpful hints)
 - 1. Place the methylated spirit lamp on the pad of asbestos.
 - 2. Magnetise the needle by using the bar magnet.
 - 3. Test the needle with the compass to make sure it is a magnet. Remember the rule for magnets.
 - 4. Hold the needle in the small pliers and then light the methylated spirit lamp.
 - 5. Put the needle in the flame and very slowly pass the needle through it. Do this until the needle has been thoroughly heated.
 - 6. When the needle has cooled down again, test it with the compass. What do you notice? What has the heat done to the matnetism?
 - 7. Heat has destroyed the magnet.
 - 8. Has the heat changed the needle at all? Try bending the needle. What happens?

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. NAME OF ACTIVITY

ELECTROLYSIS

II. ACTIVITY FORMAT:

A. Tools and Materials

Glass jam jar Red and blue insulated copper wire Battery Some salt Cloth to protect the desk or table top

- B. Procedures for this activity:
 - 1. Fill the glass jam jar with water and dissolve a spoonful of salt in it.
 - 2. Stand the jar on the protective cloth.
 - 3. Cut two lengths of wire 60 cm. long have red colored wire for the positive side of the battery and blue colored wire for the negative side of the battery.
 - 4. Carefully remove 20 cm. of insulation from one end of both pieces of wire and about 2 cm. of insulation from the other ends. Wind the long pieces of bared wire round a pencil to make a coil.
 - 5. Connect the wires to the battery and then put the coiled ends into the jar of salt water. What do you see happening?
 - 6. One coil of wire is giving off a lot of tiny bubbles which one is it?
 - 7. This is a gas called HYDROGEN.
 - 8. After a while a gas will be given off the other wire this is a gas called CHLORINE.
 - 9. The name giv en to this process is ELECTROLYSIS and in SALT WATER two gases, HYDROGEN and CHLORINE are given off.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

EARTH CONDUCTS ELECTRICITY

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

Battery	
Two lon g nails	
A bowl	
Some red and blue insulated copper	wire
Galvanometer	
Piece of plasticine	(

- B. Procedures for this activity (with helpful hints)
 - 1. Cut a length of red and blue wire and take off the insulation from the ends. Wind the ends of the wires round the tops of the nails.
 - 2. Join one end of the coil of wire from the galvonometer to the end of the blue wire on one of the nails.
 - 3. Fill the bowl with earth from the garden.
 - 4. Stick the two nails into the earth. Put the nails on opposite sides of the bowl.
 - 5. Connect the end of the red wire to the positive terminal of the battery.
 - 6. Fix the galvanometer to the desk or table top by using a small piece of plasticine. Make sure that the compass needle is in line with the coil.
 - 7. Now take the end of the coil and put it on the negative terminal of the battery. As you do this, look at the galvanometer and you will see the needle "kick."
 - 8. What must happen for the compass needle to "kick" like this?
 - 9. The circuit has been completed because the electricity is flowing through the earth.
 - 10. Most things using electricity are "earthed." Find out what this means. A more common word used by Americans is "grounded."
- III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





Full Rext Provided By ERIC

ELECTRICITY AND MAGNETISM

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. <u>NAME OF ACTIVITY</u>

MAKING AN ELECTRIC LIGHT BULB

II. ACTIVITY FORMAT:

A. Tools and Materials

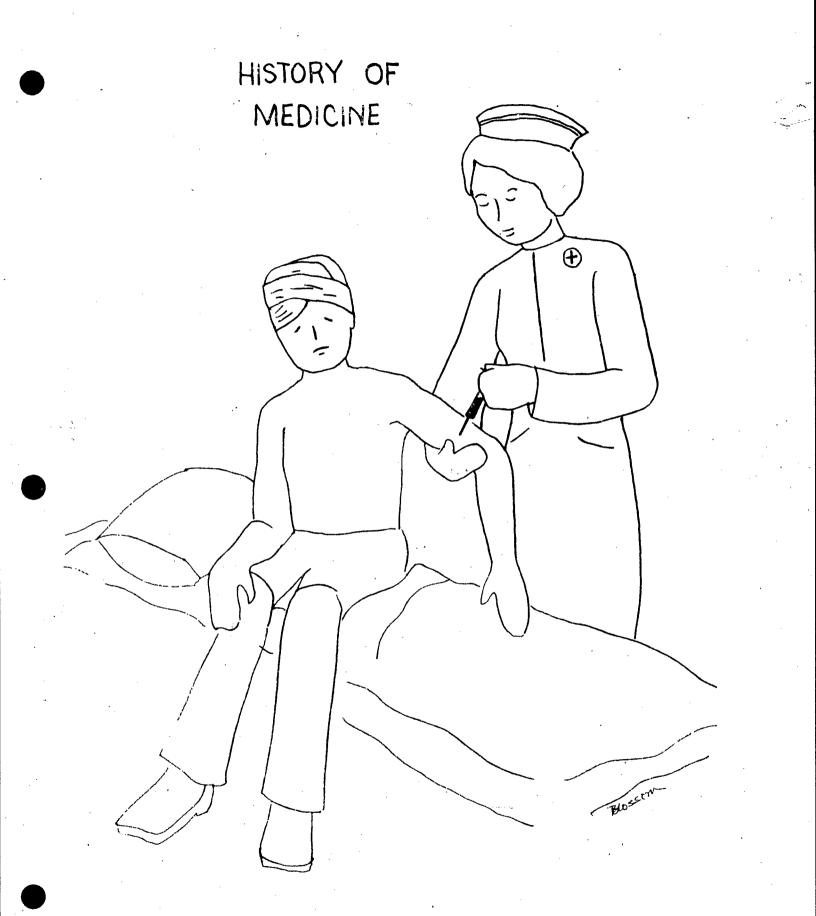
Small glass bottle and a fitting cork 2 pieces of insulated copper wire about 1 yard long Short piece of sticky tape 6-volt battery Some pieces of very thin iron wire Cloth to protect the desk or table top

- B. Procedures for this activity (with helpful hints)
 - 1. Bare the ends of the copper wire. Fix the copper wire with the sticky tape on either side of the cork. Allow about 4 inches of wire to project for the connections inside the bottle.
 - Cut a piece of thin iron wire about 2 inches long and twist carefully to the ends of the copper wire. Allow about l inch of iron wire to separate the ends of the copper wires.
 - 3. EXPERIMENT 1: Carry out this part of the experiment without the bottle. Connect the ends of the wires to the battery. See what happens
 - 4. EXPERIMENT 2: Fix another piece of thin iron wire to the copper wires and put the wire and cork into the glass bottle.
 Fix the cork tightly. Connect the wires to the battery. What happens this time?
 - 5. The electric "light bulb" you have made should remain lighted for some time. If it does not remain lighted, you must experiment with the length of iron wire you use.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



334





SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: HISTORY OF MEDICINE

3-4

GRADE LEVEL:

<u>GENERAL OVERVIEW</u>: This unit is designed to help children compare the colonist's self-dependence in health needs to present-day interdependence in health needs.

TEACHING/LEARNING RESOURCES:

1. Reference materials:

Books:

- Robinson, Monroe, Artley, Huck, & Jenkins, <u>Roads to Follow</u>, Scott, Foresman, and Company, Chicago, 1965
- Scobey, Mary-Margaret, Ed. D., <u>Teaching Children About Technology</u>, McKnight & McKnight Publishing Company, Bloomington, Illinois, 1968
- <u>Colonial Williamsburg Official Guidebook</u>, Colonial Williamsburg Foundation, 1972

Dodds, John W., <u>Everyday Life in Twentieth Century America</u>, G. P. Putnam's Sons, New York, 1965

- Drug Crisis, Dell Purse Book, Dell Publishing Co., Inc., New York, 1971
- Duffy, John, <u>Epidemics in Colonial America</u>, Kennikat Press, Port Washington, New York, 1953

Leavens, Neil, Director, <u>1972-73 Directory of Films</u>, Instructional Materials Center, School District City of Royal Oak

Leavens, Neil, Director, <u>Resources for Learning Catalog, 1972-73</u>, Instructional Materials Center, School District City of Royal Oak Wigginton, Eliot, <u>The Foxfire Book</u>, Doubleday, New York, 1972

Charts:

Circulation (Health) Digestion (Health) Human Ear Human Eye Man Uses Plants and Animals Matter Muscles (Health) Nerves (Health) The Body (Health) The Senses (Health) The Skeleton (Health)

Cities are Different and Alike

Finding Out About the Water Cycle

Cleanliness and Health Colonial Children Eat Well, Grow Well

Bacteria

Films:

336

23-14.36

Films: (continued)

Frontier Boy of the Early Midwest Hear Better: Healthy Ears Heart and Circulation How Sunshine Helps Us Indian Influences in the U.S. Learning About Our Bodies Let's Be Clean and Neat Let's Keep Food Safe to Eat Light Here Kindled, The Living Things in a brop of Water Man's Basic Need: Natural Resources New England Fisherman Nutritional Needs of Our Bodies Plants That Grow From Leaves, Stems, and Roots Plymouth Colony: The First Year Puritan Family of New England Save Those Teeth Things Change - Solids, Liquids, Gases Woodland Indians of Early America You and Your Ears You and Your Eyes

Filmstrips:

About Your Life and You (with record) Dental Health for the Grade School Ears and Hearing Eyes' and Seeing Keeping Food from Spoiling Louis Pasteur Our Health Department Public Health The Doctor Examines You Vitamins and You Weapons Against Disease What a Doctor Sees When He Looks at You Why Eat a Good Breakfast You, the Living Machine Drug Store Workers (with record)

Flat Pictures:

Guide to Good Eating Medical Helpers Play for Health Sleep for Health

Realia:

Microscope and slides, prepared and blank Teeth X-Rays:

Elbow and Foreara Foot Hand and Forearm Hands Ribs Spine

326

Realia: (continued)

Models: Blood pressure cuff Bones Digestive system Ear Eye Heart Skeleton Skull Stethoscope Teeth Torso

2. Field Trips:

Detroit Historical Museum Greenfield Village Henry Ford Museum Drug Company Drug Store Local Hospital Cranbrook Institute of Science Medical Center or Clinic

3. Human Resources:

Nurse Doctor Dentist Mother Fireman Ambulance Driver College Medical Student

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

٤

Role Play Pantomime Plant a herb garden (See Plants and Trees Unit - p. 421) Making books Vocabulary tree

UNIT THE LESTORY OF MEDICINE

CONCEPTS BEHAVIORAL OBJECTIVES As a result of this unit, each child will be able to: Science Study of relationships between 1. Give scientific reasons for the changes in medicines and disease medical treatments 2. Explain the origin of "patent medicines" 3. Describe the medical and dental institutions and roles found in our environment today 4. Explain the role hygiene plays in health 5. Explain one of the following: a. purging b. bleeding c. trepanning 6. Explain one of the following: a. how malaria is transmitted b. how an inoculation prevents a disease c. why he/she can't have measles or chicken pox twice 7. List four "childhood diseases" 8. Discuss medicines: a. where do people buy medicines? b. what 2 broad groups of medicines are there? (1) patent (2) prescription 'c. what shows that "home remedies" still exist? (1) are these medicines still grown and prepared at home? (2) is this a sign of a cultural or physical change and/or cultural or physical lag? d. what do people use for money in their purchase of medicines or medical service? e. what trend in medicine is shown by innoculations and vaccinations? f. is there evidence that our society has become too dependent upon medicines?

	
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Role pl aying	
Discuss: Silhouetted Pantomimed	
Speakers	C. C.
Brainstorm	
Listening to pioneer stories	
Committee work to gather information	
	No re
• •	
340	
	•

Full Text Provided by ERIC

CONCEPTS	BEHAVIORAL OBJECTIVES
Science, continued	What diseases have been brought into control during the last 20 years?
	Identify, using sight, smell, taste, and touch, as many as possible of 15 spices or herbs
Mathematics	
Measurement	Be able to measure 1 teaspoon, 1 tablespoon, 1 cup, and 1 quart
	List and compare cost of medical services and medicine
· · ·	
· ••••••••••••••••••••••••••••••••••••	
Communication Skills	
Reporting and writing	Work and study skills: 1. gather information from easy reference
Reading - pleasure	2. listen attentively to resource guests
· information	3. interview people 4. work in small committees
Group discussions	 5. discuss information gained from various sources 6. form generalizations from gathered data
Poe try - g roup	Repeat "A Spoonful of Sugar Makes the Medicine Go Down" and "Dry Bones"
	J J
	341
EKCC Anter Revenue VIII	

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	e de la companya de la
Plant herb garden	
Wax paper bag rectangles. Compare these with control paper rectangles to study transclucence. Discuss why these windows might have been used, i.e., heat retention translucence, insect protection.	· · · · · · · · · · · · · · · · · · ·
Salt box to allow dry measurement with pos questions, i.e., "How many teaspoons in on tablespoon?"	ted e
Work with old measurements of stone, pinch etc.	3
Repo rts	
Role playing	
Resource people	
Group le ar ning	

UNIT TITLE: HISTORY OF MEDICINE (continued)

	· · · · · · · · · · · · · · · · · · ·
CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit each child will be able to:
Social Studies	
History (Past and present)	1. Draw a picture of colonial settlement and a
Cultural adaptation	modern city (compare)
	2. State 3 ways in which a farm is different from a city
	 Recall that colonial doctors dispensed and/or made their own medicines
	4. State 4 professional people he could turn to for medical help
	5. Explain 3 ways in which our culture has changed from colonial times
	 Describe 3 cultural adaptations which have occurred in our society since cultural times
	 Classify 2 different kinds of doctors in practice today
. · · · · · · · · · · · · · · · · · · ·	8. List ways man adapts to his physical and cultural environment
	9. Identify medical practices of specialization
	10. List social controls which identify and qualify medicine
	•

ERIC

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Murals or construct a model	Speaker from local herb club
Reports	Speaker on current "health foods"
Discussions - compare ways in which present-	Mother
day medicine is different from colonial medicine	High school chemistry student
Compile a vocabulary tree	Local Life Support Unit
List way in which we worked well together	Pharmacist
Role playing	D. D. S.
Silhouetted - Pantomime	R. N.
	College medical student
 A second s	School Nurse
	School Health Personnel
· .	
•	

344

ERIC Full East Provided by ERIC

UNIT TITLE: <u>HISTORY OF MEDICINE</u> (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
•	As a result of this unit, each child will be able to:
Career/Self-Awareness	
Product production	State the role the barber plays in caring for the sick today
Services	What is the role of the pharmacist?
	What is the role of the dentist?
	How has the medical profession become separated into special areas of attention?
	<pre>What special training is required now for nursing? a. what different kinds of nurses are there? b. what training differences are there? c. who prescribes these requirements?</pre>
	<pre>What is a para-professional? a. why is this role becoming important b. what training is required? c. how does a para-professional assist a doctor?</pre>
	State the role of the physician a. what is the role of the surgeon b. how does training of a surgeon differ from the training of a physician?
	What was the role of a surgeon?
	What part did the barber play in caring for the sick?
	What was an apothecary shop?
	Who took care of dental needs?
	What persons acted as nurses?
	What medical roles did midwives play?
	Were the fees for services controlled in any way?
Jdentification of personal values	Jdentify 3 aspects of your life that are important to you and which you would not want to give up (e.g., opportunities to engage in sports or outdoor activities, opportunities to be creative, etc.)
<u>IC</u>	

·			
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS		
Interviewing:	Ambulance Driver		
Para-professional	Drug store owner		
Dentist	Doctor		
P harmacist	Dentist		
.'hysician			
Nurse Barber			
Reports			
 Discuss: respect the histories of medical roles and practices (not a subject for jokes, etc.) respect the current opinions of other people regarding medical personnel: a. chiropractors b. osteopaths c. Christian Scientists d. podiatrists e. health-food advocates appreciate the accessibility of medical and dental help realize there has been a gradual swing 			
<pre>in medical and dental fields to pre- ventative care vs. cure 5. do people you know believe differently from you concerning doctors and/or medicines?</pre>			
C 346	1		

ACTIVITY

VOCABULARY TREE

Compile a vocabulary tree on doorway or wall by contributions of new words learned during course of unit - each new word written on a leaf which child tapes on tree.

Vocabulary List:

1. A. D. A. 2. A. M. A. 3. adaptation 4. agrarian 5. allergy 6. allergist 7. anesthesiologist 8. anesthetist 9. antibiotic 10. apothecary 11. apprentice 12. apprenticeship 13. bacteria 14. "bleeding", practice of 15. Board of 16. bulb 17. chiropractor 18. colonial 19. colony (ies) 20. community 21. crops 22. cultivate 23. cultural trait 24. decongestant 25. diploma 26. doctor 27. environment 28. "four natures of body" (Gallenic period of medical history) 29. general practitioner 30. harvest 31. her b 32. independence 33. inoculation 34. interaction 35. interdependence 36. licenses 37. nurse's aide 38. optician 39. optometrist

40. orthodontist

41. patent 42. pediatrician 43. physical trait 44. physician 45. podiatrist 46. practical nurse 47. prescription 48. registered nurse 49. seed 50. slip (of plant) 51. social control 52. society 53. special 54. specialization 55. spice 56. surgeon translucent 57. 58. transparent 59. "trepanning", practice of 60. urban

- 61. vaccinations
- 62. virus
- 63. volunteer workers

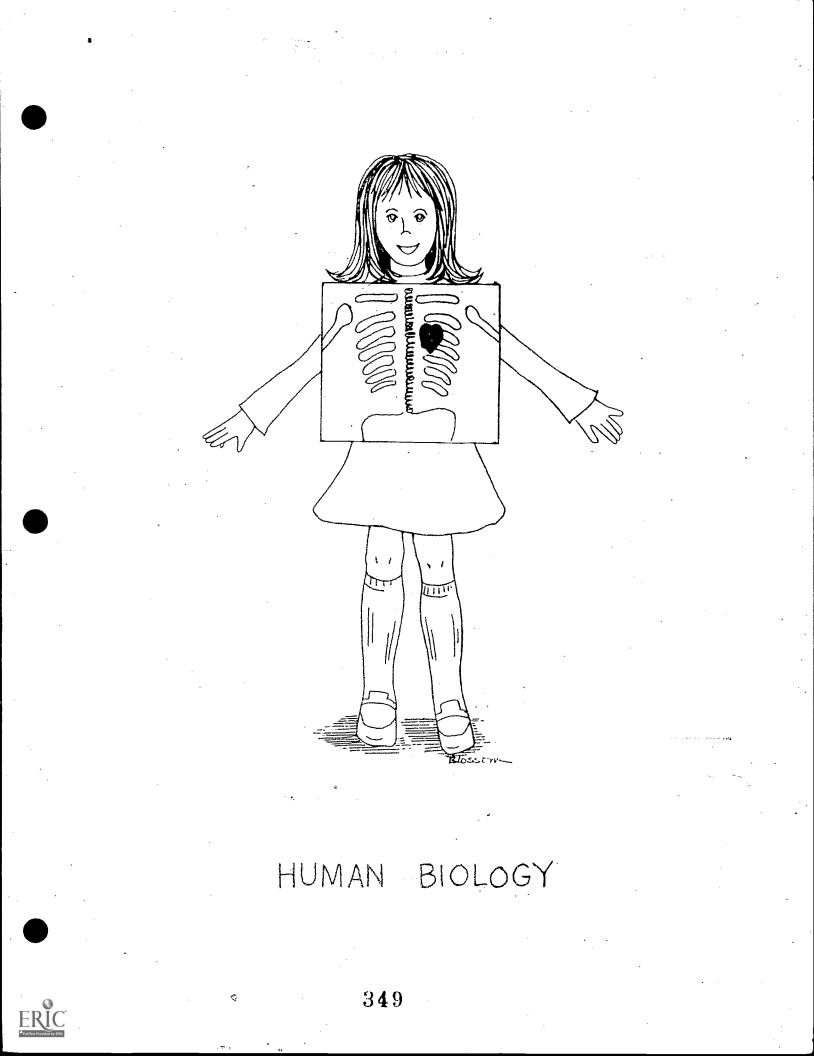
<u>Activity</u> - Compile a vocabulary tree on door way or wall by contributions of new words learned during course of unit. Each new word is written on a leaf, which the child tapes on the tree.

337

348

HISTORY OF MERICIN

ERIC



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: HUMAN BIOLOGY

3-4

GRADE LEVEL:

GENERAL OVERVIEW: In this Human Biology 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:

Conditioning and Response Dental Health Human Biology Health

Medicine Nutrit**i**on

Children express intense interest in their bodies, how they learn, their sequential development-physically and mentally, and their personal health. Food is also a favorite topic and is easily used as a basis to investigate nutrition. Since dental caries occur in 98% of the United States population, preventive dentistry is a needed area of study too.

TEACHING/LEARNING RESOURCES:

1. Reference Materials:

Books: What Good Luck What Bad Luck <u>How Many Teeth</u> <u>Going on Ten</u> - Health Text 4th p. 26 <u>About Yourself</u> - Health Text 5th <u>Dairy Council Materials</u> <u>Human Body</u> - Life Series

Films: Breathing

Dreact	1 IIG		
Ears:	Thei	r Struc	cture and Care
Heart	and C:	ircula	:ion
			culation .
			Circulatory System .
Human	Body,	The:	Digestive System
Human	Bo dy,	The:	Excretory System
Human	Body,	The:	Muscular System
Human	Body,	The:	Nervous System
Human	Body,	The :	Nutrition and Metabolism
Human	B o dy,	The :	Reproductive System
Human	Body,	The:	Respiratory System
Human	Body,	The :	Skeleton

350

Films: (continued)

- Human Machine

Infectious Diseases and Natural Body Defenses Muscles and Bones of the Body Story of Menstruation You and Your Ears You and Your Eyes You and Your Five Senses Cleanliness and Health

Save Those Teeth

Oakland Schools Film Library 607 Boy to Man (16 min) 456 Fertilization and Birth (10 min) 606 Girl to Woman (16 min)

Narcotics and Dangerous Drugs I.D. Kit

Filmloops:

Dental Office Assisting Dental Lab Technician Dental Hygienist Hearts and Plucks School Nurse, Principal Regular R.N. Dental Lab Technician License Practical Nurse Dental Assistance

Filmstrips:

About Boys (R) About Girls (R) About Your Life and You (R) Billy Meets Tommy Tooth Breakfast and the Bright Life (R) Dental Health for the Grade School The Doctor Examines You Ears and Hearing Eyes and Seeing Feel of Your Skin Finding Out How You Grow Food for Good Health Food Makes the Difference Getting Acquainted with Our Bodies Growing Up Here's Your Ear How Bones and Muscle's Work How Your Nose Knows Keeping Food From Spoiling Keeping Children Safe Look How, You See Louis Pasteur Muscular System Nervous System Our Health Department Public Health



341

Filmstrips: (continued) Skeletal System Skimpy and a Good Breakfast Skin and Its Functions Sleep and Rest Taste, Smell and Touch Teeth and Eating To Smoke or Not To Smoke (R) Vitamins and You Weapons Against Disease We Grow What a Doctor sees When He Looks at You What is A Cell? Why Eat a Good Breakfast Why We Breathe You and Your Ears You and Your Eyes You and Your Five Senses You, The Human Being You, The Living Machine Your Blood System, Heart Your Bones and Muscles Your Eyes at Work Your Food and Digestion Your Heart and Lungs Your Life Stream Your Muscles Your Nose and Throat Your Sense of Smell and Taste Your Sense of Touch Your Skin Your Skin and Its Care Your Tasting Tongue Your Teeth and Their Care

Flat Pictures:

Bathe - Enjoy the Water Bicycle Safety Set (Disney) Drama of Life Before Birth Guide to Good Eating Health Helpers (Gunter) History of Medicine in Pictures I, II, III History of Pharmacy in Pictures Home Safety (Disney) Medical Helpers (Gunter) Parts of the Body (EBF) Pedestrian Safety Rules (Disney) Play for Health Play Out-of-Doors the Year 'Round Safety Helpers (Gunter) Sit Straight, Stand Tall Sleep for Health Sleep.Long Hours World's Within Our Body

Realia: X-rays - Elbow and Forearm Foot Hand and Forearm llands Head or Skull Intestine Leg and Rib Cage Pelvis Ribs

342

Spine

Charts Animal and Plant Cells (Nystrom) Beginning The Human Story: A New Baby The Body (Health) The Brain (Health) Chick Embryos (Turtox) Circulation (Health) Digestion (Health) The Glands (Health) Human Ear (Turtox) Human Eye (Turtox) Muscles (Health) The Nerves (Health) Respiration (Health) Section of the Skin (Turtox) The Senses (Health) The Skeleton (Health) Typical Animal Cell Your Heart and How It Works

Transparencies

```
Animal Cell Types
Human Circulatory System
Human Heart
Human Skeleton and Muscles
Human Skin in Cross Section
Structure of a Tooth
Structure of an Ear
Structure of an Eye
Typical Animal Cell
```

Models

Blood Pressure Cuff Bones Brain Digestive System Ear Eye Gall Bladder Heart Heart, Lungs, Larynx Jaw Lung Otoscope Scalp Skeleton

```
Realia: Models (continued)
Skin
Skull
Spirometer
Stethoscope
Teeth
Tongue
Torso
Urinary Tract
```

2. Field Trips:

Suburban Ambulance Beaumont Hospital SEOVEC - Dental Office Assisting Macomb County Community College - TV Studio - production of play Henry Ford Museum - Medicine Detroit Historical Museum - Medicine Oakland County Health Department Bakery Candy Factory Royal Oak Farmers Market

3. Human Resources:

Dental Health Dentist Dental Hygienist Dental Office Assistants (SEOVEC) (students) Dental Laboratory Technician Medicine Pharmacist Public Health Nurse Physician Hospital Personnel Parent Drivers Conditioning Animal trainer School nurse. Psychologist Nutrition Dietition - Beaumont Oakland County Cooperative Extension Service Family Living - Home Economics Dept. 1026 N. Telegraph Road Pontiac 1 - 334 - 3507Preventive Medicine Health Insurance Agent Life Insurance Company representative





4. Activities:

Dental

Interview Dental Health Team

Mouth Care - Each child with brush paste, coloring matter etc. Role play - prevention of teeth decay through proper diet Dissection - hearts and plucks of sheep

Measure pulse rate at rest, at work, and return to rest rate Plan menus for good nutrition

Conditioning

Construct wood on mazes

Test stimuli - sour, sweet, bitter

Collect examples of advertising - classify as to appeal Humans

Construct skeleton out of styrofoam

Growth record of selves .

Record heights by ages in fall and after Easter and prepare charts Life size mural of each student using the human body outline, e.g. sketching in digestive system

UNIT TITLE: HUMAN BIOLOGY

CONCEPTS	BEHAVIORAL OBJECTIVES
CONDITIONING AND RESPONSE	As a result of t his unit, each child will be able to:
Social Studies People behave differently because of different stimuli and conditioning People form habits because of conditioning Responses can be inborn or learned	List 3 examples of inborn and learned responses List 3 habits and how they were formed State 3 examples of or to deduce how learning or habits can be changed Give 3 examples of stimuli Demonstrate learning by trial and error
<u>Communication Skills</u> The nervous system causes the body to respond to stimuli and to be conditioned by them People develop and use a language because of conditioning	Identify, draw and/or label the parts of the nervous system List 1 way the other systems are related to the nervous system Discuss 3 ways in which people form opinions of others by their physical appearance
People become conditioned to signs and symbols Learning to read is a process of conditioning and responses	Compare and contrast our language with another by choosing 5 words, such as bleu (French) blue (English) Label 3 signs and symbols and give 2 reasons why we have them

Identify 5 examples of meanings of body language

 METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	~
Role playing experiences:	
Pantomiming to show how the body can he used for expression	Dancer
Activities:	Entertainer
Movie showing body language	Music teacher
Make wooden mazes, time yourself to see how much faster you can do it, after you have done it once	Movie - "Body Language"
Take a new name and see how long it takes to respond to it	
Form opinions of people from observations and pictures	
Learn some of another language	Person working with the hard of hearing
Make up a code for others to decipher	
Make a list of individual habits, then compare and contrast them	School psychologist
Try to change a habit, then tell the class hew you went about it, if it was successful or not, and how long it took	Animal trainer
write about a belief you have, how you came to believe it, and what would have to hoppen for you to change your belief	
Select opposing beliefs and have a debate	
Mile signs with symbols of your own	
Present various stimuli, one at a time, to students, then share their various art interpretations of the same stimuli	
Make different sounds, or play music, and either write about or discuss different people's reaction to that stimuli	
Have children think of "sound symbols," i.e. sirens, alarm clocks, etc. produce them to the class with their heads down, and have them tell what the sounds represent	357
	· · · · · · · · · · · · · · · · · · ·

ER

UNIT TITLE: <u>HUMAN BIOLOGY (continued)</u>

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	· ·
People are conditioned to use certain currencies, different units of measure, and time schedule	Record how long it takes to learn to respond to new stimuli Make a metric system conversion
	By using a different alphabet or code, "read" or decode a message
Art	
Art expression is based upon stimuli and the response to that stimuli	Design their own symbol and meanings
· · · · · · · · · · · · · · · · · · ·	
Career/Self-Awareness	
Servicing advertising Managing researching designing Personnel training	Produce an advertisement using attention- getting signs and symbols Develop opinion poll for product research based on package appeal Describe 2 ways conditioning and response are a part of animal training
Building self-confidence	Describe how you feel when you know that you have done something well
	358

347

ERIC

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS	
Make copies of mazes from <u>Detroit News</u> Magazine section and give to children to check their times with the experts	Animal trainer Dietitian	
Have them draw their own mazes, put on dittos, a n d distribute to class	Pharmacist	
Write commercials, jingles, and/or make advertising posters with special emphasis on what stimuli, i.e. color, size, art, causes people to notice .:nd/or remember them		
Sociologists study people and their behavior		
Sychologists and psychiatrists diagnose and/or treat people who need help in coping with their problems, some of which are caused by conditioning		
Doctors treat people for nervous disorders	· NET C	
Advertising people study people's reactions to certain stimuli so that they are able to sell a product more easily		
Fashion designers create designs which they hope will appeal to people		
Animal trai n ers condition animals to respond to certain stimuli		
359		

.

ERIC Full East Provided by EFIC

UTHIL ITTLE: HUMAN BIOLOGY (continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
DENTAL HEALTH	As a result of this unit, each child will be able to:
Functions of the teeth Structure of the teeth Dental diseases, abnormalities, and accidents Control of dental disease by: a) the dentist and his health team b) the individual c) nutrition and diet d) floridation of water	List three functions of teeth Draw and label the parts of a tooth Describe the roles of the dental health team Identify four products used in the prevention of tooth decay Plan a sugar free diet Apply proper method of tooth brushing Formulate a rationale for the floridation of water
Math	
Measuring Fractions Charts and Graphs	Organize data into a graph or chart Discuss critically the meaning of the ADA seal used on products Relate the functions of five tools used in dentistry Distinguish between the seven specialities in dentistry
<u>Communication Skills</u> Interview techniques Spelling and vocabulary - dental terms Creative writing - stories, commercials Reading and research skills Dramatization (The Toothache Mystery) Labeling - diagrams and display table Record keeping - daily brushing; diet Critical analysis of advertising Letter writing - information, thank you	Describe the four types of teeth and their uses List proper tooth care
	3.60

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
DENTAL HEALTH	
Show	Dental hygienist
moview models	Dentist
filmstrips	Dental Laboratory Technician
Use with a dental resource person tooth brush and paste and color agent cleaning teeth brush on color-check for cleanliness	Ch a rts and Filmstrips
Draw baby teeth, permanent teeth label tooth use	
Draw one tooth - label parts	
Do research on one of these: tooth pastes, powders, cleaners floridation	
decaying process of food sugar free diet	
Study	
"Colgate" materials, posters, booklets	
Dentists	
American Dental Association 7 specialities worker categories who assist the	Dentist Dental assistant Students from SEOVEC
P.S.S. on the dental health team tools (5) of dentistry machines - x-ray - chairs, etc.	
Collect pictures Smiles Tooth product advertising	
Tooth puzzle 361	

ç

·

. 350

UNIT TITLE:

CONCE	EPTS	BEHAVIORAL OBJECTIVES
DEN	TAL HEALTH	As a result of this unit, each child will be able to:
Car	eer Concepts	
	Products produced for consumer Supplies and equipment for dentist's office	List and describe 5 occupations centered around dental health
	Advertising of products Tools used in dentistry Service careers in Dental Health	
		لی در
· .		
		362

ERIC

·.

METHOD OF IMPLEMENTATION

۰.,

17.00 J.

.

363

RESOURCE PEOPLE & MATERIALS

2

•

• • •

HUMAN BIOLOGY (continued) UNIT TITLE:

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
<u>Communication Skills</u> Letters Research and written reports Reading for information Oral discussion Word origins in anatomy Interviewing	Make a life-size mural showing functions of one system of the body as a member of a committee Prepare and discuss critically, as a committee member, a report on the selected body system Gather data and write a booklet about nutrition, incorporating the four groups of food and menus containing the correct balance of these food groups
	•
Science	
Systems of the body Nutrition calories 4 basic food areas Vaccines Medicines	Be able to classify food correctly, as to the basic 4 groups at the 70% level List 2 herbs used in medicine in colonial times and today
Medicines	
Social Science	-4
Group dynamics Geography of foods	Investigate and collect data into a chart of seasonal food availability Participate in a brain-storming experience to develop questions to be used in interview of a nurse, a doctor, hospital personnel, a produce farmer, an ambulance service owner or a dietition
Self-Awareness Physical development (formulating identify) self-concept	Compare or describe changes in physical development over a time period
ERIC	361

35**3**

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
HUMAN BIOLOGY - Nutrition	
Show movies models filmst ri ps	
Make a human shape containing a body system - label it	
Use research material	
Visit Beaumont Hospital	
Visit Ambulance Service	
Visit Oakland County Health Department	
Visit by a food insp e cto r	
'isit by a pharmacist	
Visit by a r estau r ant owner or visit a restaurant	
Visit by a physician	
Visit by school nurse	
Visit by a produce farmer	
Language Arts experience - each child wrote at least 3 questions he wanted Mrs. Sterling to answer	Mrs. J. Robert Sterling came into the class to talk to youngsters (dental hygienist)
Make book, "All About Me" with fingerprints handprints, height, weight	
365	

FUIL Fox Provided by ERIC

UNIT TITLE: <u>HUMAN BIOLOGY (continued)</u>

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Career/Self-Awareness	
Servicing Diagnosis and treatment	Be able to list 10 jobs in the medical service industry
Producing	List childhood vaccines given to Michigan children
	Describe the progression from soil preparation and planting to harvesting and marketing a specific food product
	Be able to list four jobs in the food preparation industry either hospital or restaurant
· · ·	List the government agencies which pertain to food and drugs
	Describe how a physician uses a diagnosis to prescribe proper care
Math	
Measurement Liquid Dry	Read a weight scale, and compare weights of at least 5 different foods
•	36 6
••• • • • • • • • • • • • • • • • • •	

FR

· · ·		
٨	AETHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
:		
	Visit Royal Oak Farmers Market in	
	September or October looking for any of the following items:	
·	sweet corn	
	lettuce squash potatoes	
	onions green beans	
	peas eggs honey	
	radishes melons	
· .	tomatoes grapes berries	
	beets green sweet peppers	
	Carrots	
	Mark charts of states and federal laws which control the kinds of drugs and medicines on the market, the purity of foods, the weights, (e.g. the laws about hotdogs)	
• •*		
	367	
-		

HUMAN BIOLOGY

ACTIVITY

TYPES OF TEETH

1. Tools necessary for each item to be made:

Mirrors

2. Materials necessary for each item to be made:

Collection of pulled teeth

- (May be obtained from local dentist or dental school)
- List the approximate number of students to be involved in each segment of activity.

Entire class

- 4. List (chronologically) a step by step procedure for each activity being made in the unit.
 - 1. Talk about the different types of teeth and their uses.
 - Identify the various types of teeth and their us
 Try to locate these same tooth in such that is in the

3. Try to locate these same teeth in each individual's mouth.

HUMAN BIOLOGY

¢

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

PARAFFIN MODELS OF TEETH.

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

Paraffin Plaster of Paris (quick setting powder to be mixed with water) Bowl for mixing

B. Human Aides and Resources

Parents College students

C. Procedures for this activity (with helpful hints)

1. Bite on paraffin which has been slightly warmed.

- 2. Fill paraffin model with plaster of Paris.
- 3. Allow to harden.
- 4. Illustrate occlusion.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





1. NAME OF ACTIVITY

TEETH MODEL

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

Elmer's glue White crustless bread Paint White paint Brushes

Ceramic clay

55°......

+----

Β. Human Aides and Resources

Supervisor

С. Procedures for this activity (with helpful hints)

- 1. Break crustless white bread into little pieces.
- 2. Mix Elmer's glue and white paint until kneadable.
- 3. Shape each tooth.

4. Dry over night.

- 5. Form lower plate out of clay.
- 6. Insert teeth.
- 7. Dry for 4 days.
- 8. Paint gum.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. NAME OF ACTIVITY

TEETH - DIGESTION EXPERIMENT

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

Glass jars Sugar - granulated (1 teaspoon) Sugar cube Water

B. Human aides and resources

Entire class

- C. Procedures for this activity
 - 1. Fill both glass jars with equal amounts of water.
 - 2. Drop the two types of suger in the jars at the same time.

P

3. Observe

o ser o narress

τ.

- 4. Discuss how chewing would help in digestion.
- 5. Soda crackers saltless (sweet when chewed, digestion begins in the mouth)

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. <u>NAME OF ACTIVITY</u>

EXPERIMENT - DECAYING PROCESS OF TEETH

II. ACTIVITY FORMAT:

A. Tools and Materials

Apples B**owl**

- B. Procedures for this activity (with helpful hints)
 - 1. Bruise apples.
 - 2. Put apple in bowl with other apples.

3. Wait a week or two.

- 4. Observe expansion of bruise.
- 5. Observe decay of apples that touch bruised one.

.

6. Relate this decay to that of teeth when cavities aren't filled.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. <u>NAME OF ACTIVITY</u>

ACID'S AFFECT ON TEETH (EXPERIMENT - EGG SHELL AND VINEGAR DEMONSTRATION , TO ILLUSTRATE HOW ACID ON TEETH BREAKS DOWN ENAMEL)

11. ACTIVITY FORMAT:

A. Tools and Materials

Eggs Vinegar Small bowl

B. Procedures for this activity (with helpful hints)

- 1. Break eggs.
- 2. Have children feel hardness of shell.
- 3. Drop shell into bowl of vinegar.
- 4. In a few hours, let children see how easily it breaks.
- 5. Return shell to vinegar overnight.
- 6. Observe softness of shell.
- 7. Compare with action of acid on teeth.

111. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Children were amazed at how fast acid can break down enamel.

I. NAME OF ACTIVITY

EXPERIMENT - HOW ACIDS DISSOLVE CALCIUM FROM STERILIZED, EXTRACTED TEETH

ACTIVITY FORMAT: II.

- Tools and Materials Α.
 - Extracted teeth from dentist One percent solution hydrochloric acid Two small glasses
- Procedures for this activity (with helpful hints) Β.
 - 1. Place one tooth in one percent solution hydrochloric acid. 2.
 - Place another tooth in plain water.
 - 3. Allow to stand for one week.
 - 4. Shows softening.

RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION) III.



I. MAME OF ACTIVITY

USING DISCLOSING FABLETS TO CHECK OF PROPER, CAREFUL TOOTH BET AND

معمته

TI. ACTIVITY FORMAT:

A. Tools and Materials

Disclosing tablets Toothbrush Toothpaste Mirror Water TSink

B. Human Aides and Resources

Dental office assistants on scheme

- C. Procedures for this activity (with helpful hints)
 - 1. Brush teech.
 - 2. Chew disclosing tablet.
 - 3. Look in mirror for red spots these are ire is that were missed in brushing.
 - 4. Brush again check.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



365

HANDS ON ACTIVITE (STUDENT PERFORMED)

I. MARE OF ACTIVITY

COTHPASTE

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

Salt Baking soda Mouthwash Paper plates

B. Human Aides and Resources

Supervisor Oakland County Health Department

- C. Procedures for this activity (with helpful hints)
 - 1. 7 pounds salt
 - 2. 7 pounds baking soda
 - 3. Enough mouthwash to make paste
 - 4. Store in pill bottle or tin foil
- III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. NAME OF ACTIVITY

DEMONSTRATE : "TOOTHBRUSH FOODS" (such as apples and carrots) VERSUS "STICKY FOODS" (such as candy and marshmallows)

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

A. Tools and Materials

Knife Cutting Board Foods such as apples and carrots Sweet foods such as marshmallows or candy

- B. Procedures for this activity (with helpful hints)
 - 1. Cut toothbrush food show clean edge of knife.
 - 2. Cut sticky foods show how it sticks to knife.
 - 3. Explain that this is how food sticks to teeth and holds on to the enamel.
 - 4. Therefore we should eat less sticky, sweet foods and brush teeth often.
 - 5. Pass out "toothbrush foods" for children to eat.

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>

ERIC

, get in

1. NAME OF ACTIVITY

SWEETLESS PARTY

TI. ACTIVITY FORMAT:

Α. Tools and Materials

> Sugarless foods Apple cider Popcorn Crackers/cheese Potato chips Pretzels Peanuts

Sugarless gum Unsweetened fruit juices Carrot sticks Radishes Stuffed celery Fruit Meat (hot dogs) Tooth picks

7 7

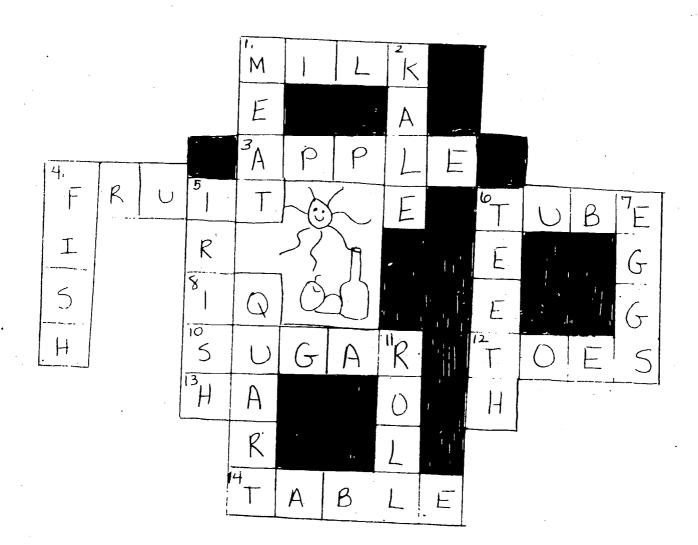
Human Aides and Resources Β.

> Parents College students

- Procedures for this activity (with helpful hints) С.
 - Have the children plan what foods they would like for . 1. their party.
 - 2. Assign foods for children to bring.
 - Assign utensils i.e.: bowls, napkins, cups, popcorn 3. popper, ingredients, can opener. 4.
 - Set up stations for various foods.
 - 5. Serve.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





*A list of all answers should be supplied

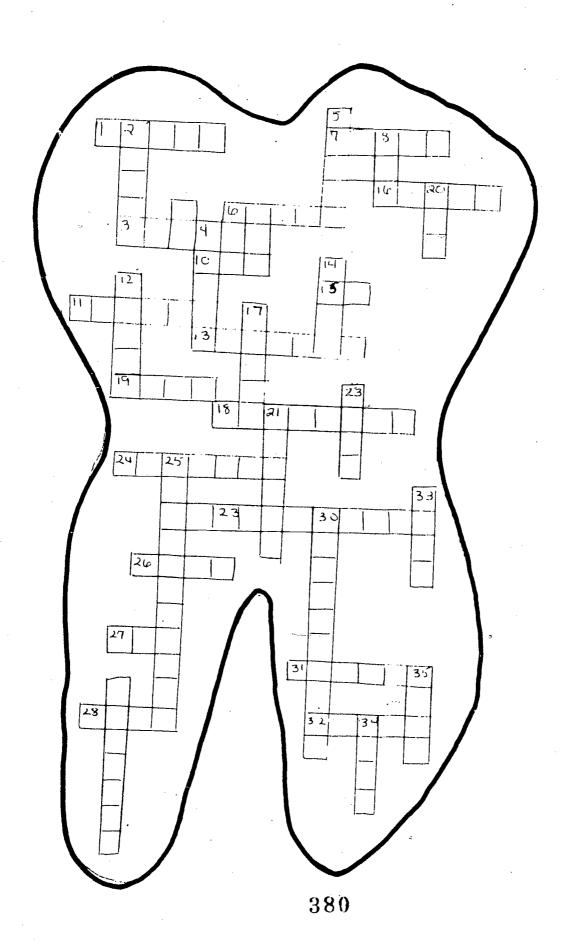
ACROSS

1.	The best food of all
З.	Gives chewing exercise
4.	
6.	What toothpaste come s i n
8.	You have a good one if you
	work this puzzle
10.	Not so good for teeth
12.	You had twice as many baby
	teeth as you have
13.	Add "bit" and be sure that tooth-
	brushing is one
14.	Elbows off at mealtime

DOWN

- 1. One serving a day to grow
- 2. A green, leafy vegetable
- 4. They are hard to catch
- 5. A kind of potato one a day
- 6. Right foods help build good, strong ones
- 7. A source of Vitamin D you should eat one a day
- 9. You need this much milk every day
- 11. Better for teeth when made with whole wheat flour







ACROSS

Ŧ.	One of the nicest things to be greeted with is a smile
3.	The root of the tooth is that part that holds the tooth in the mouth.
6.	Disease of the teeth is calleddecay .
7.	We should eat ana day.
10.	We should brush our teeth right after weeat
11.	The name of an orange colored vegetable <u>carrot</u>
13.	Enamel is the <u>hardest</u> substance in our body.
15.	The lower teeth should be brush (direction).
1 6.	Tooth paste is sometimes put on our toothbrush to help clean our teeth.
18.	The front teeth that help to cut our food are called incident
19.	becayed teeth may hurt
22.	There are <u>thirty-two</u> teeth in a full permanent set of teeth
24.	An orange colored fruit that is high in Vitamin C would be <u>oranges</u> (pl.);
26.	Milk is the best beverage for us to drink. (p1.);
27.	Some people chew gum and it is bad for their teeth.
28.	Can you think of a protein we should eat everyday to give our teeth
• •	cnewing exercise:
31.	A picture of our teeth to show the inside of them is called <u>x-ray</u>
32.	Foods with much <u>sugar</u> in them cause rapid decay.
	eneme equate rapid decay.

DOWN

A tooth in the back of our mouths that helps us to grind our food is 2. called a molar 4. Teeth help us to eat, talk and make us look as we do. A sticky, sweet food which speeds decay is _____ candy 5. A sweet drink that is bad for our teeth is _____pop 8. We should see the dentist _____two ___times a year. 9. We should brush our teeth right after we 10. eat 12. To clean our teeth, we _____ them. 14. The pink skin around our teeth is called gums 17. crown is the white part of the tooth that we see in our mouths. The 20. The tooth helps us to tear food. (It is also called the eye tooth) cuspid 21. The bacteria use sugar as <u>food</u> and produce acid. 23. 25. We should make an appointment with the dentist before we go to see him. 29. A doctor who takes care of our teeth is called a dentist 30.. The upper teeth should be brushed ________ (direction). 33. In order to have good strong teeth we must eat _____good 34. food. We would like all of you go get your dental <u>card</u> in during the school 35. year.

I. NAME OF ACTIVITY

OCCUPATION MURAL FOR DENTAL HEALTH

II. ACTIVITY FORMAT:

A. Tools and Materials

5' x 2' large white paper paste construction paper felt pen magazines parn (optional) scissors

B. Procedures for this activity (with helpful hints)

- 1. List on board occupations concerned with dental health.
- 2. Cut out or make pictures showing these occupations.
- 3. Out of construction paper make a large tooth.
- 4. Place tooth in middle of large white paper.
- 5. Arrange occupations around tooth.
- 6. Label pictures and connect to touth either by drawing a line or by yarn.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



ACTIVITY

VOCABULARY TREE

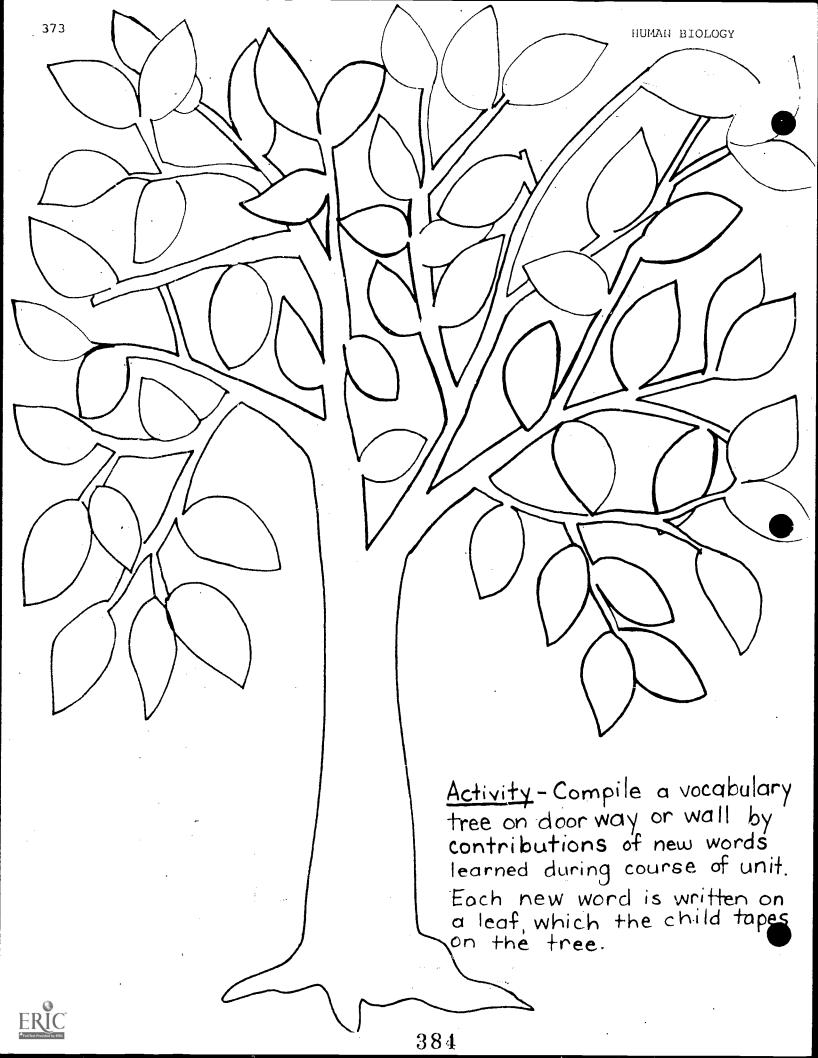
Compile a vocabulary tree on doorway or wall by contributions of new words learned during course of unit - each new word written on a leaf which child tapes on tree.

Vocabulary List:

1.	A.D.A.
2.	A.M.A.
3.	adaptation
4.	agrarian
5.	allergy
6.	allergist
7.	anesthesiologist
8.	anesthetist
9.	antibiotic
10.	apothecary
11.	apprentice
12.	apprenticeship
13.	bacteria
14.	"bleeding", practice of
15.	
16.	bulb
17.	chiropractor
18.	colonial
19.	colony (ies)
20.	community
21.	crops
22.	cultivate
23.	cultural trait
24.	decongestant
25.	diploma
26.	doctor
27.	environment
28.	"four natures of body"
	"Gallenic period of medical
	history)
29.	general practitioner
30.	harvest
31.	herb
32.	independence
33.	inoculation 👘
34.	interaction
35.	interdependence
36.	licenses
37.	nu rse' s aide
38.	optician
39.	optometrist
40.	orthodontist

41. patent 42. pediatrician 43. physical trait 44. ph**ysi**cian 45. podiatrist 46. practical nurse 47. prescription 48. registered nurse 49. seed 50. slip (of plant) 51. social control 52. society 53. special 54. specialization 55. spice 56. surgeon 57. translucent 58. transparent 59. "trepanning", practice of 60. urban 61. vaccinations 62. virus 63. volunteer workers

37. hur 38. opt 39. opt 40. ort



1. NAME OF ACTIVITY

CONSTRUCTING MAZES

II. ACTIVITY FORMAT:

A. Tools and Materials

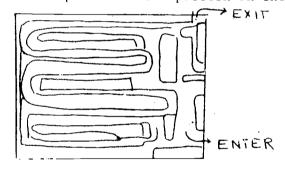
Wood (or heavy cardboard)
Saws
Glue, or nails (depending on thickness
 of wood)

Paper Pencil Ruler Carbon or ditto paper

385

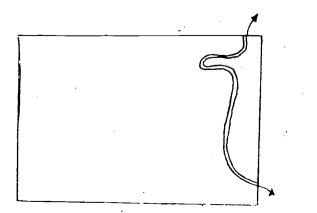
B. Procedures for this activity (with helpful hints)

- 1. Copy or make up an original maze on paper.
- 2. Trace maze onto an appropriate piece of wood or heavy cardboard with carbon paper or ditto.
- 3. Cut pieces of wood to dimensions of the lines.
- 4. Glue or nail those pieces to the pattern on the wood.



RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

It is best to have them glue the path in first, then add the other pieces. Some of the children closed their path and didn't realize it.



- I. <u>NAME OF ACTIVITY</u>
- MAZE AND TOWER OF HANOI
- II. ACTIVITY FORMAT:
 - .A. Tools and Materials

Saws	Dowel rods
Ġlue	Wood for Towers of Hanoi
Paint	

- B. Procedures for this activity (with helpful hints)
 - I. Maze
 - a. Reproduce a maze (good ones are in Sunday's <u>Detroit News</u> Magazine)
 - b. Time students
 - c. Time a second time
 - d. What conclusions do they form?
 - e. Have the students fake hitting the person next to them. What happens? Why?

II. Towers of Hanoi

- a. Saw a rectangle of wood 12" x 4" x 1"
- b. Drill 3 holes to match diameter of dowel rods
- c. Glue dowel rods in holes
- d. Saw 5 discs of decreasing diameters (object is to move the 5 discs one at a time to another dowel rod without placing a larger disc on a smaller one)

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

QUESTIONS

1. Do you help with operations? 2. What do you like about your job? 3. What don't you like about your job? 4. How many years of schooling is required to be a nurse? 5. What an EKG? Do you like being a nurse? 6. 7. Do you work at a desk? 8. Why did you want to be a nurse? 9. What were your favorite subjects? 10, What school do you go to for training? 11. Do you know how to take out stitches? 12. What kind of nurse is she? How many kinds of nurses are there? 13. Do you give shots? 14. Do you work long hours? 15. What do you like best about your job? 16. Can you start an IV? 17. Do you give blood transfusions? 18. Did you ever see a heart operation? 19. Have you ever assisted in a brain operation? 20. How long have you been a nurse? 21. Have you ever given a TB test? 22. How do you feel when you see someone badly hurt? 23. How could you help someone with a hearing problem? 24. Can you read doctors' prescriptions? 25. What kind of patients do you have? 26. Have you ever seen a kidney transplant? 27. How many people have you worked on? 28. Do you answer phones at the hospital? 29. Did you ever see an amputation? 30. How do nurses help during operations? 31. Has any patient died while you were there? How did you feel? 32. What are some of the instruments you use? 33. Does it take a lot of studying to be a nurse? 34. Do badly burned people come to the hospital? 35. Did you ever have a red code? 36. Did you ever have a patient who was shot? 37. What hospitals have you worked in? 38. What is an anurism? 39. If someone had a hand cut off, could another one be transplanted on? 40. What are the most important instruments you use? 41. Have you ever ridden in an ambulance? 42. Have you ever worked with babies in the hospital? 43. What causes a dislocation of the hip? 44. Do you work on holidays? 1 45. Were you ever a patient in the hospital you work in? 46. Did you ever see anyone with bad polio? 47. Have you ever seen a patient being rushed into the emergency room? 48. Did you ever treat an épileptic? 49. Did you ever work in X-rays? 50. Were you ever badly hurt and had to be rushed to the hospital? 51 Is there a place in the hospital that is quarantined? 52. Have you ever seen a tumor? 53. Did you ever take blood for tests? 54. How many patients do you treat each month?

55. Are you short on blood donations at the hospital?

387

HUMAN BIOLOGY

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

DOUCHNUTS - SMALL BUSINESS

- II. <u>ACTIVITY</u> FORMAT:
 - A. Tools and Materials

Order paper Electric fry pan Brown paper Oil Puffin Buttermilk Biscuits Granulated sugar Cinnamon

Pencils Wax paper Bowls Hole maker Napkins Paper plates

B. Human Resources

Parents Student helpers Principal School Secretary

C. Procedures for this activity (with helpful hints)

- 1. List jobs
- 2. Diagram jobs on assembly line

3. Elect manager

- 4. Make up application form for jobs
- 5. Apply for jobs
- 6. Interview for jobs

7. Distribute jobs

- 8. Set up assembly line stations
- 9. List out supplies needed from recipes

10. Figure quantities of doughnuts to be made

- 11. Figure out quantities
- 12. Make out application for loan
- 13. Interview for loan
- 14. Figure interest to be paid on loan
- 15. Pick up loan and sign for loan and date to be paid
- 16. Purchase supplies
- 17. Make advertisement posters
- 18. Place supplies on stations on assembly line
 - a. Openers open packages
 - b. Separators separate biscuits

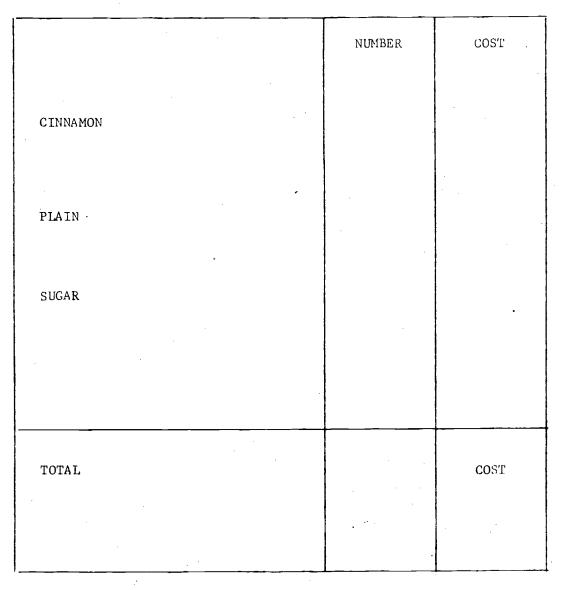
c. Hole makers - poke hole in biscuits (let rise)

- d. Gookers let oil heat (medium)
- .e. Turners place in oil and turn when brown
- f. Removers remove from oil to drain on brown paper
- g. Place on paper plates
- h. Fill orders and place in paper bags
- 19. Cashiers
- 20. Order takers

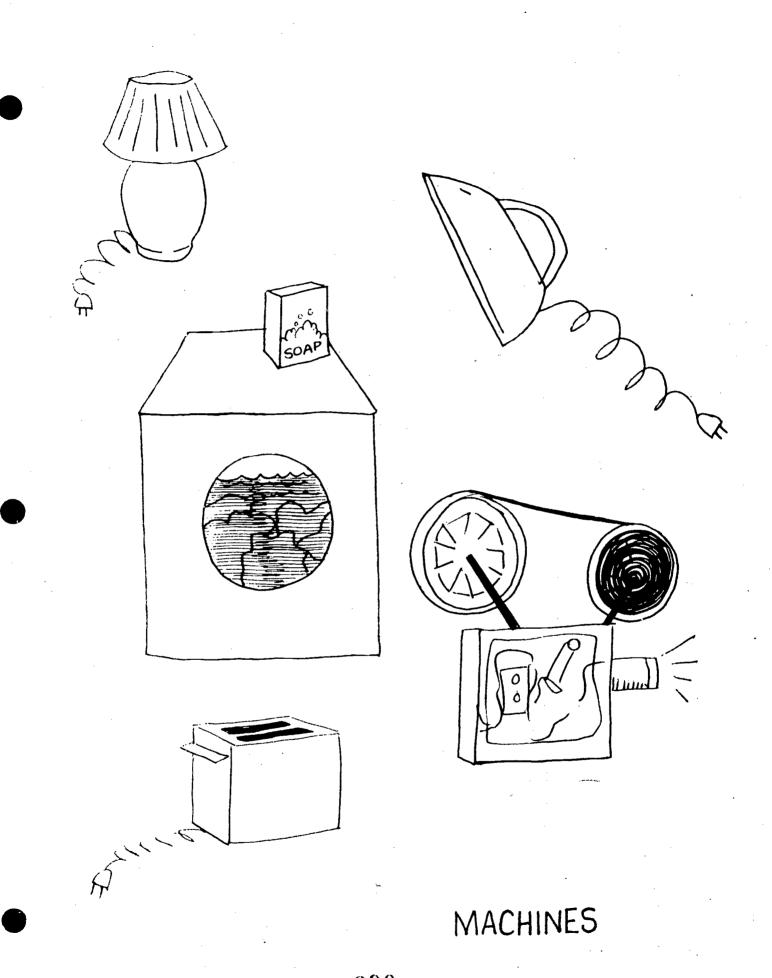
III.

RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Outstanding - the children took over completely on responsibilities.







و. مر

Full Text Provided by ERIC

SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: MACHINES

GRADE LEVEL: 3-4

GENERAL OVERVIEW: By exploring the six simple machines through hands on experiences and activities involving mass production, children will appreciate how work is eased by machinery.

TEACHING/LEARNING RESOURCES:

1. Reference Materials:

Books:

Tools for Andy, James Tippett (Abington-Cokesbury Press Man and His Tocls, William Burns (McGraw-Hill Book Co.) Child's Book of Carpentry, Jeanne Taylor (Greenberry Publishing) True Book of Tools for Building, Jerome Leavett (Children's Press) Woodworking, Roger Lewis (Alfred A. Knopf) What Does It Do and How Does It Work, Russell Hoban (Harper Bros. Pub.) Machinery, Darby Machines, Adler How Do We Know?, Scott, Foresman Machine Experiments, Sootin Science Near and Far, Schneider Machinery, Saunders Simple Machines, Stone About Wonderful Wheels, Feenie Ziner Friction, Edward Victor Levers, Lisa Miller Simple Machines and How They Work, Elizabeth Sharp What is a Machine, Boleslaus Syrocki What is a Simple Machine, Gene Darby Wheels, Lisa Miller Royal Oak Science Guide Probe Third grade science text - Mallinson Blough - Schwartz: Elementary School Science 3rd edition - Holt, Rinehart & Winston

Films:

ABC of Tools Simple Machines - Wheels and Axles Wheels, Wheels, Wheels Machines Make Work Easter What is Automation?

Film loops:

Simple Machines All-round machinists Sheet Metal Workers Bricklayers Appliance Servicemen

Welders Oxygen and Arc Cutters

Filmstrips:

Finding out about Simple Machines What my Father Does - What my Mother Does How Wedges Help Us How Wheels Help Us Levers AL Work How Ramps and Screws Help Us Pulleys How Levers Help Us Gears Levers Dendulum

Realia: (

2

: Gears Lever**s** Pendulum Water Wheel Wheel and Axle Screws Nails Pulley**s**

2. Field Trips:

SEOVEC - Machine Shop and Woodworking, Appliance Dept. Greenfield Village Tool and Die Shop Ford Motor Company - Wixom Plant Rouge Plant Pontiac Motor Car Company Lumber Yard Bakery Building Site Squirt Bottling Factory - Ferndale Upland Hills (farm machinery)

3. <u>Resource People:</u>

Parents, aides and guest speakers Builders in area Plant managers College students Custodian Mailman Secretary T.V. Actress Employee from tool company

4. Activities:

Mass production - kites, book markers, note paper, model trucks Six experiments with simple and complex machines Wheel and axle and inclined plane Screws

Letter holder Abacus Gears Pencil holder Levers

392

Tic-Tac-Toe Board Make tool box and tools String art

UNIT TITLE: MACHINES

ONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Science	
6 simple machines Complex machines Tools	Differentiate the 6 basic simple machines Identify simple machines found in complex machines Use six simple machines Apply proper use and care of tools
Math	
Measurements	Measure distance, volume and time
Social Science	
Machines affect on man	List 5 ways machines help man List 3 ways machines make work easier
History of tools and machines	Describe the history of a tool
·	
· · ·	

ERIC Full Haxt Provided by ERIC

. N	AETHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	Activities involving simple machines Take apart an old alarm clock	Machine shop workers
		. ' _
,	Activities	Farents
	Group discussion reading and research	Guid e at Greenfield Village
	Have each child select a machine and report how it was invented, how it works, who invented it Have each child invent their own machine, tell what it is used for, how it is made,	
	etc.	

. •

UNIT TITLE: <u>MACHINES</u> (continued)

CONCEPTS	BEHAVIORAL OBJECT IVES
	As a result of this unit, each child will be able to:
Communication Skills	
Creati v e writing	Write a story
Research	Read and research an aspect of machinery
Choral reading	Participate in choral reading
	Tell wh a t simple machine to use in a given situation
•	
Career/Self-Aw ar eness	
People and their job roles	

Tools Management Producing Servicing

Recognizing emotions and attitudes in self

Explain the concept of mass production

Describe 5 ways machines are used to produce products and services

Describe how your actions reflect a particular attitude (e.g., reading is fun--read a lot of books, talk about what you've read, etc.)

ERIC FUILSAL PROVINCE OF FRICE

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
Field trip	Parents
Report on field trip	College students
Role play	School custodian
Set up assembly line	
Activities	· · ·
Guest speakers and field trips	
Make a mural, after a field trip, of the machines seen and how they make work easier	•
·	
396	

.

385 ·

.....

I. NAME OF ACTIVITY

SIX EXPERIMENTS WITH SIMPLE AND COMPLEX MACHINES

II. ACTIVITY FORMAT:

A. Tools and Materials

Claw hammer and nail Hand drill with gear Brace and bit Screw driver and screw Blocks of wood Inclined plane and pulley from IMC

B. Procedures for this activity

Each child performs the six experiments and records observations on given sheet.

1. Pound nail into wood block with claw hammer.

- 2. Drill hole using hand drill into wood block.
- 3. Drill hole using brace and bit into wood block.
- 4. Write up differences in using the hand drill and brace and bit.
- 5. Using screw driver, turn screw into wood.
- 6. Using the IMC pulley display write up observations in lifting different weights.

MACHINES

:		• •	
	<u>HA NT</u>	S ON ACTIV	ITY (STUDENT PERFORMED)
	I.	NAME OF A	CTIVITY
		INCLINED	PLANE AND WHEEL AND AXLE
	II.	ACTIVITY	FORMAT:
		Α.	Tools and Materials
			Long board Roller skate Large rubber band Ruler
		В.	Human Aide s and Resources Royal O ak Science Guide M-8
		С.	Procedures for this activity (with helpful hints)
			 Use a board to make an inclined plane. Attach the rubber band to the roller skate. Pull the skate (on its side) up the board. Measure the length of the rubber band. Try it a second time using wheels. Alter the slant of the board and try again. Explain the reasons for the difference in length of the rubber band. Using a spring-loaded weighing device, have

ded weighing device, have the students decide if it takes more effort to get the roller skate started from a fixed position or to keep it in motion once it is moving.



I. NAME OF ACTIVITY

GEARS

Ċ,

II. ACTIVITY FORMAT:

A. Tools and Materials

PlywoodDremel sawNailsHammerScrap woodCardboard

B. Procedures for this activity (with helpful hints)

1. Trace a circle on cardboard.

- 2. On its outer edge draw ridges to assimilate a gear.
- 3. Cut out.
- 4. Use the gear as a pattern for making gears on a larger circle.
- 5. Cut out.
- 6. Trace the 2 patterns on plywood.
- 7. Cut out wheels with dremel saw.
- 8. Using a nail and hammer, start a hole in the center of each wheel, and drill a hole.
- 9. Make a handle out of a small block of scrap wood and nail on to one of the wheels.
- 10. Fasten the 2 wheels to a large piece of wood side by side.
- 11. Turn the handle. The 2 wheels should move in opposite directions. The smaller wheel should move at a faster rate than the large wheel.



MACHINES

1.1227

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

LEVERS

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

A. Tools and Materials

2 x 6 board 1/2" thick Short 2 x 4 to be used as a fulcrum

B. Human Aides and Resources

Royal Oak Science Guide M-9

C. Procedures for this activity (with helpful hints)

Using board and fulcrum, place fulcrum in different positions to experiment with lifting, pushing, and balancing.

I. NAME OF ACTIVITY

LETTER HOLDER

II. ACTIVITY FORMAT:

A. Tools and Materials

Dremel saw Paint brush Varnish Sandpaper T-square 2 l" nails Woodburning tool $4 \ge 1/2$ board - running feet to be cut into 6" pieces Β. Procedures for this activity (with helpful hints) 1. Measure 6" long 4 x 1/2 wood. 2. Measure 6" piece into 3 sections - width 2 1/2 - 2 - 1 1/2. 3. Cut measured pieces. 4. Nail 1 1/2" piece bottom 2 1/2" piece back 2 " piece front 5. Burn design on front. 6. Sand

7. Varnish

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

3	9	1

1. NAME OF ACTIVITY

ABACUS

II. ACTIVITY FORMAT:

Β.

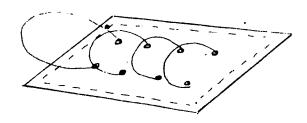
A. Tools and Materials

Saws (cross cut and dremel) Drill T-square Template for holes to be drilled Wood Beads (red, blue, yellow, green 100 per color)

Wire Sandpaper Pencil Ruler Elmer's glue Reed

Procedures for this activity (with helpful hints)

- 1. Measure blocks of wood 9" long, square the edges and sand smooth.
- Measure and mark 1" from each end and 1" from each edge.
- 3. Mark where holes are to be drilled (2 rows of holes 1 3/4" apart).
- 4. Drill holes
- 5. Cut reed to 10" lengths.
- 6. Soak in water 24 hours.
- 7. Thread beads of one color on each of four cut reeds.
- 8. Place drop of Elmer's glue in hole, gently bend reed and insert in holes.



MACH INES

HANDS ON ACTIVITY (STUDENT PERFORMED)

- I. NAME OF ACTIVITY
- ·. PENCIL HOLDER

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

A. Tools and Materials

Cross cut saw	Sandpaper
Drill	Paint brush
T-square	Varnish
Wood (2x2x4)	Woodburning tool

B. Procedures for this activity (with helpful hints)

- 1. Measure 4" piece of 2 x 2.
- 2. Using a cross cut saw cut the piece of wood.
- 3. Measure 1" from each edge.
- 4. Drill holes in the wood within the edge.
- 5. Burn a design

1

6. Varnish



MACHINES

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

KEY CHAIN

II. ACTIVITY FORMAT:

A. Tools and Materials

1/4 plywood (3 x 3)
Beaded chain (at Frentz)
Acrylic paint
3 paint brushes
Clear varnish
Sandpaper
Carbon paper

B. Procedures for this activity (with helpful hints)

- 1. Cut wood into 3 x 3 pieces and drill hole for chain.
- 2. Sand smooth.
- 3. May be own design lay design on carbon paper on top of wood - transfer design.
- 4. Paint design using acrylic paint.

.

5. After dry (next day) apply clear varnish.

I. <u>NAME OF ACTIVITY</u>

NOODLE KNACHER (LET Me Tease You)

II. ACTIVITY FORMAT:

- A. Tools and Materials
 - (2 x 4) 14" level 1/2"dowel (about 24") Saber saw Sandpaper Drill and bit
- B. Procedures for this activity (with helpful hints)
 - 1. Cut (2×4) at angle
 - 2. Space hole every 2 inches (6)
 - 3. Drill holes with drill and bit at different depths.
 - 4. Cut dowels so when in holes they are all on the same level
 - 5. Please note dowels will be different lengths because holes are different depths.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

١...



•

•

I.	NAME OF ACTIVITY
	LINE PRODUCTION - KITE MAKING
II.	ACTIVITY FORMAT:
	A. Tools and Materials (Materials for 30 kites)
	5 - 90 feet of brown craft paper - 3 feet wide 60 lengths of wood strips 1/8 x 1/4 x 3 feet 3 - 100 feet of kite string
•	One roll - 20-24 gauge soft aluminum wire 1 box gum reinforcements Assorted tempera paints Assorted rags for kite tail 1 quart rubber cement
	B. Procedures for this activity - Refer to model kite for detailed measurements
	Make labels for work stations
	 Cut paper to shape using template. Use template to mark four fold lines and punch 2 holes. Fold along lines. Attach 2 gum reinforcements. Use fixture to cut string to length - 2 pieces 100" length 30" length Use fixture to cut wood strips to two lengths (see your kite model). Notch ends. (Optional) Drill hole in each wood strip (see your kite). Wire strips of wood together. Cut cloth for tail. Tie lengths together. Inspect. Paint design on paper. Attach flying string to kite. Cut and attach bow string. Attach tail.
	Equip stations with tools
. 111.	RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)
	406

I. NAME OF ACTIVITY

BOOKMARKS

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

Scissors	Decorations
Pencils	(Rick-rack,
Tooth picks	sequins,
Felt scraps	glitter,
Glue	
Patterns	ribbons)

B. Procedures for this activity (with helpful hints)

Two assembly lines and one control group for comparison.

Assembly Line Stations

1. Tracers) _ main body of 2. Cutters) bookmark

3. Tracers) _____ design or decoration on
4. Cutters) _____ one end of bookmark

5. Feature tracers

- 6. Feature cutters
- 7. Decoration adders
- 8. Gluers
- 9. Inspectors

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



396 -

I. NAME OF ACTIVITY

MAKING NOTEPAPER FOR MOTHERS

II. ACTIVITY FORMAT:

A. Tools and Materials

Paper cutterSmall-size business envelopesRulersSmall boxes from homeScissorsBond paper

B. Human Aides and Resources

Some from Hallmark (or some other business which profits from sentimentality).

Older grade children for assembly assistance.

C. Procedures for this activity (with helpful hints)

Set up assembly line in Y formation:

- 1. On one leg of Y, assemble odds and ends and crayons for designing of envelopes. This station could handle five or six.
- 2. On other leg of Y, assemble two substations:
 - a. 4 children folding precut rectangular pieces of paperb. 4 or 6 children creating designs on folded notepaper.
- 3. Quality control at merging of lines.
- 4. 3 children slipping notepaper sheet with each envelope.
- 5. 3 children placing 12 notepapers and envelopes in box.

6. 3 children wrapping finished products.



MACHINES

398

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

BUILDING OF MODEL TRUCKS

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

Board of tools Extension cord Lumber Wheels

Thumbtacks Axle material (coat hangers) 1/2" doweling

Β. Human Aides and Resources

> College students to assist precutting and on line 2 fathers of students: Auto Design Man - Machine Builder

- С. Procedures for this activity (with helpful hints)
 - Measure axle guide lines on bottom of flat bed 1.
 - Attach engine block to flat bed 2.
 - Attach cab to flat bed 3.
 - 4. Drill hole by adult for steering column
 - 5. Attach seat to flat bed
 - 6. Use template, mark and drill dowaling hole
 - 7. Using guide lines, nail staples to bottom of flat bed
 - 8. Rough and fine sand edges of trucks
 - 9. Inspection
 - 10. Cut axles to 4 1/2" lengths
 - 11. Attach one wheel to axle
 - 12. Slip axle through staples and attach other wheel
 - 13. Inspect wheel alignment
 - 14. Attach headlights
 - 15. Glue and insert four precut pieces of doweling in truck bed
 - 16. Final inspection.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Children selected one truck and applied: 1) linseed oil; 2) first coat of latex paint; 3) second coat of latex paint; 4) highlights using acrylic paints (brushes clean with soap and water if done quickly).



TRUCK MASS PRODUCTION

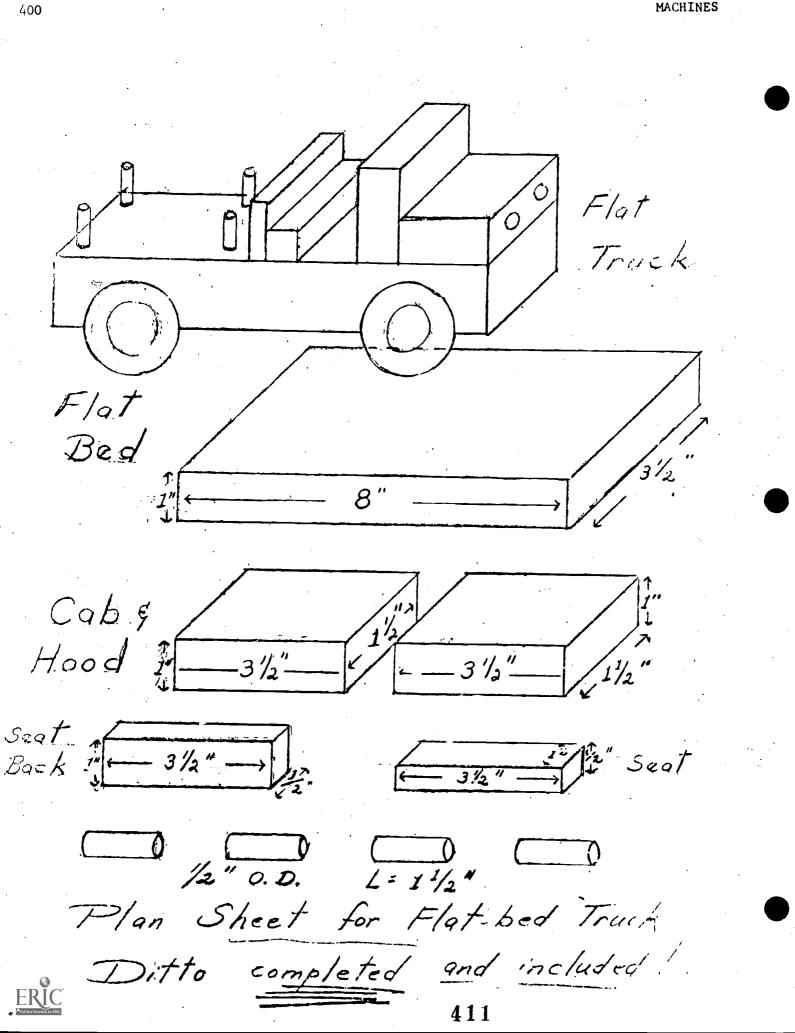
Parts List Per Truck (Multiply number of parts of length of wood to determine total material needed for class).

4 wheels
*2 coathanger wire, 4 1/2"
4 1/2" Staples
*1 Pine, 3/4" x 1 1/2" x 8"
*1 Pine, 3/4" x 3 1/2" x 8"
8 Brads
4 1/8" I.D. - 3/8" O.D. Steel Washers
*2 1/2" x 1" x 3 1/2" Pine
*4 1 1/2" x 1/2" O.D. doweling

Assembly line will have to be planned to fit your individual classroom with electrical outlet taken into consideration.



MACHINES



MACHINES

HANDS ON ACTIVITY (STUDENT PERFORMED)

Ι. NAME OF ACTIVITY

MAKING HOLES THROUGH A BLOCK OF WOOD

ACTIVITY FORMAT: II.

Α. Tools and Materials

> Hand file or awl 12 board feet $3/4 \ge 4"$ Hand drill Saws Electric drill Wooden horse Hammer Sandpaper

Β. Human Aides and Resources

> Father who's a carpenter Parent aides during activity

- С. Procedures for this activity (with helpful hints)
 - . J. Assemble children in small groups around activity centers. Provide paper activities until each group can cut l' length off long boards.
 - 2. Have children mark one surface into three sections.
 - 3. In left section, allow children to use various tools other than drills to attempt to make a hole.
 - 4. In middle section, have children use a hand drill.
 - 5. In right section, supervise children as they make a hole using electric drill.
 - Evaluate effectiveness of three methods. 6.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Children had a real appreciation for amount of work that tools save the person doing the work.



I. NAME OF ACTIVITY

SCREWS .

II. ACTIVITY FORMAT:

A. Tools and Materials

Scissors Pencils Crayons Paper Screw drivers Screws Wood

B. Procedures for this activity (with helpful hints)

Screws (show how screw is an inclined plane)

- 1. Cut a piece of paper in triangular shape.
- 2. With a crayon, color the slanting edge.
- 3. Wind the paper around the pencil.
- 4. The colored edge should show the rivets of a screw.
- 5. Try using a screw driver and screws on scrap paper.



I. NAME OF ACTIVITY

TOOL BOX AND TOOLS (Give as gift to younger child)

II. ACTIVITY FORMAT:

•

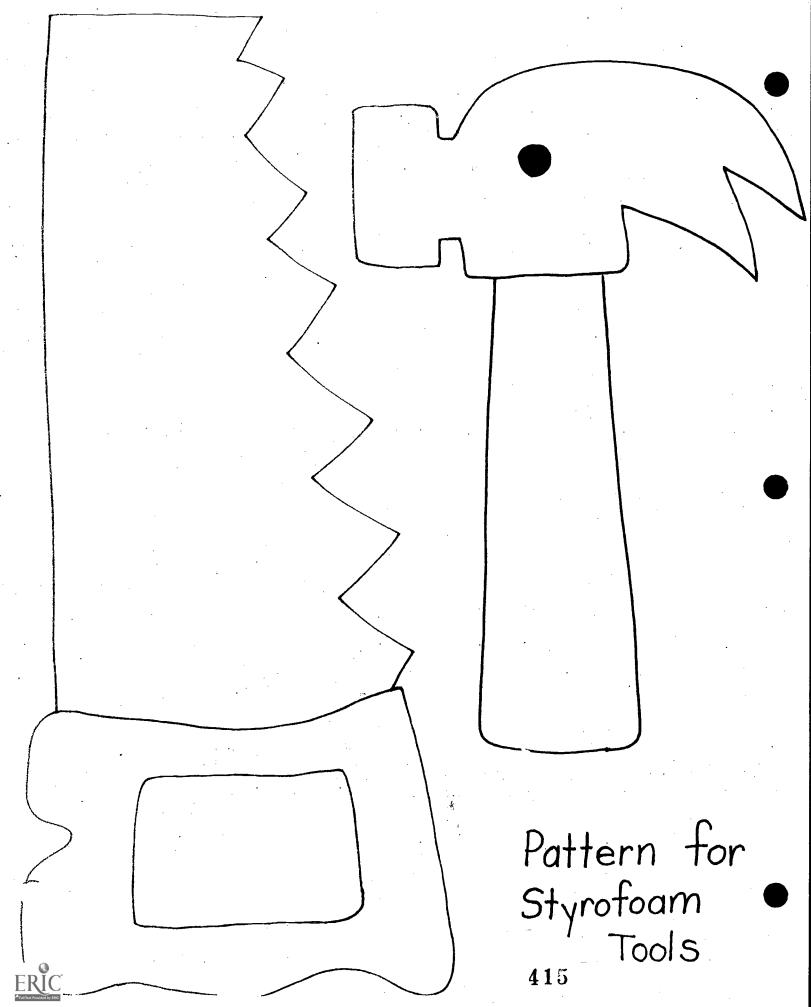
A. Tools and Materials

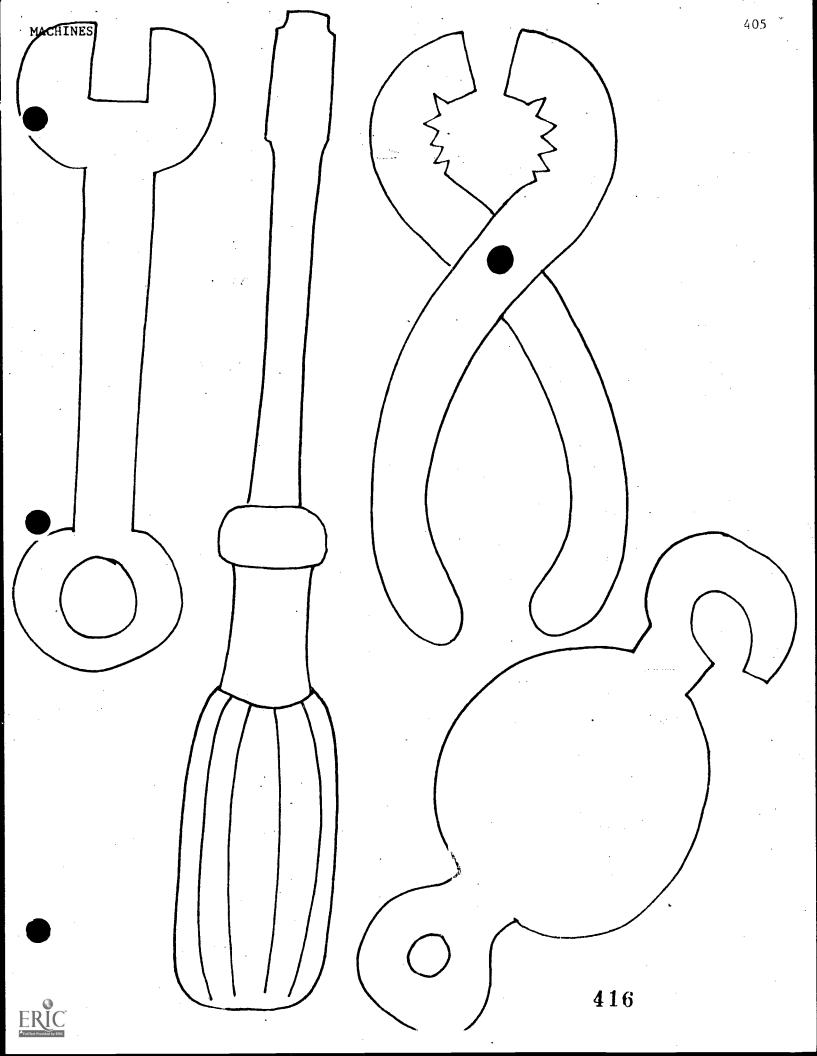
shoe boxes paper fasteners rubber bands styrofoam dremel saw

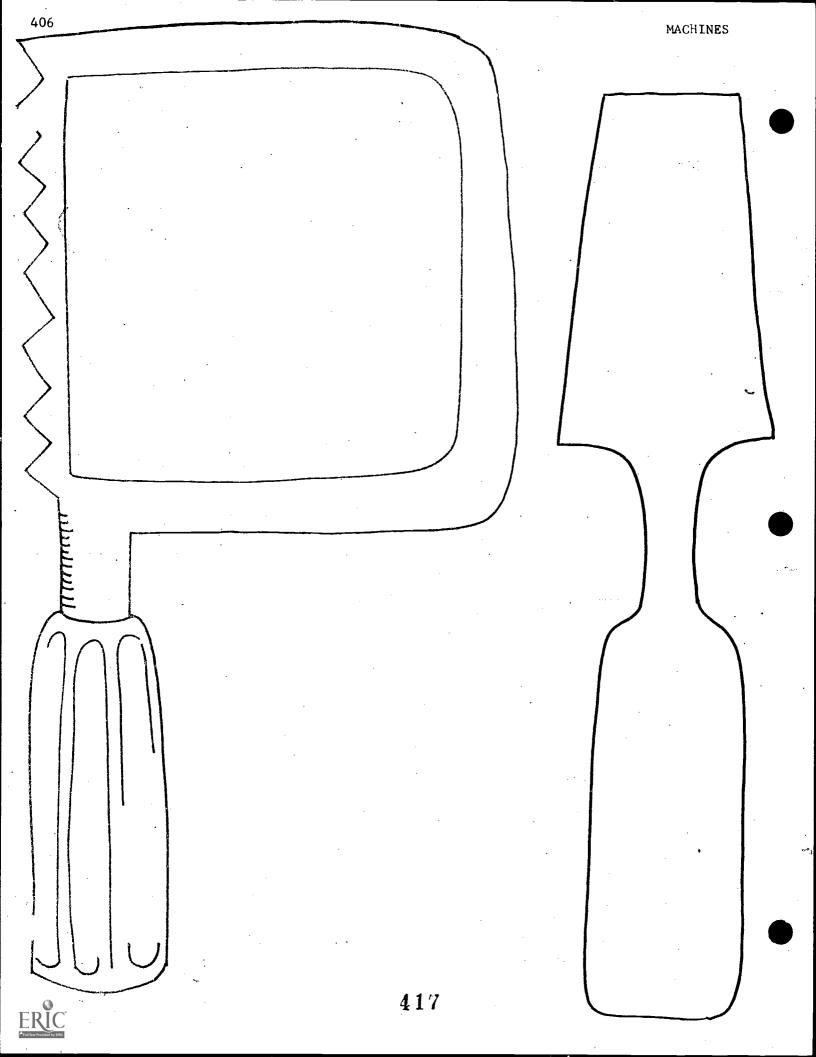
B. Procedures for this activity (with helpful hints)

- 1. Attach lid to shoe box with paper fasteners and rubber bands.
- 2. Trace pattern of tool onto styrofoam and cut out on dremel saw.

MACHINES









418 `

I. NAME OF ACTIVITY

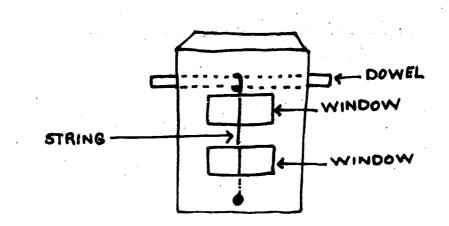
ELEVATORS - WHEEL AND AXLE

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

Half-gallon milk carton string pencil or small dowel small objects to elevate scissors

- B. Procedures for this activity (with helpful hints)
 - 1. Punch a hole on opposite sides of carton near top to insert pencil or small dowel.
 - 2. Tie string around pencil, long enough to touch the bottom of the container, and attach object to the string.
 - 3. Cut two doors on one side of the carton.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

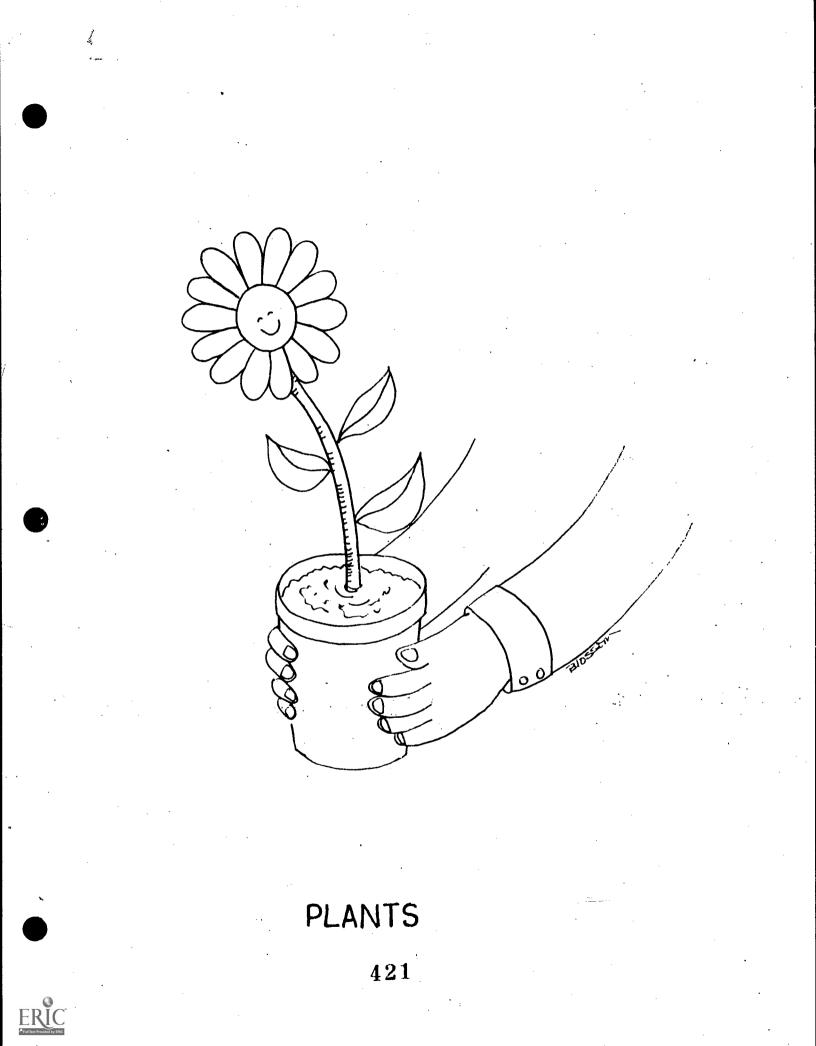
GEOMETRIC DESIGNS - STRING ART

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

individual pieces of plywood
nails
colored string
paint
hammer

B. Procedures for this activity (with helpful hints)

- 1. Paint plywood.
- 2. Hammer nails into plywood in some planned design.
- 3. Wind string around nails to obtain some interesting design experimenting with different colors of string.



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

PLANTS AND TREES

GRADE LEVEL: 3-4

<u>GENERAL OVERVIEW</u>: Children are curious about nature and their surroundings. Through the study of Plants and Trees children will observe their structures and functions. The children will become better aware of the dependence that people and animals have upon plants.

TEACHING/LEARNING RESOURCES:

1. <u>Reference Materials</u>:

Books: <u>The Blue Seed</u> <u>A Tree Called Moses</u>

Films:

Classifying Plants and Animals Color of Life, The Genetics: Mendel's Law Let's Watch Plants Grow Life In A Pond Life on the Tundra Living Things In a Drop of Water Movements of Plants Plant-Animal Communities: Interrelationships Plant-Animal Communities: Physical Environment Plant-Animal Communities: The Changing Balance of Nature Plant Tropisms and Other Movements Plants that Grow From Leaves, Stems and Roots Plants that Have No Flowers or Seeds Seed Dispersal Simple Plants: Algae and Fungi Simple Plants: Bacteria Succession - From Sand Dune to Forest Temperate Deciduous Forest, The Worth How Many Words Discovering the forest

Filmstrips:

Parts of a Flowering Plant Parts of a Plant Photosynthesis Plant Cells Plant Experiments Plant Factories Plants (R)



412

Filmstrips: (continued) Plants and Their Seeds Plants and Water Plants Grow Plants Grow and Change Plants We Use Primeval Forests Roots, Stems, Leaves Seeds and Seed Travels Story of Fruits and Vegetables Story of How Apples Grow Telling Trees Apart Trees (r) Using Forests Wisely Vegetables Walk in the Woods What is a Plant Wilderness Nature Trail World of Living Things Adaptations of Plants Animal and Plant Relations Animals and Plants of the City Animals and Plants of the Fields Animals and Plants of the Forest Animals and Plants of the Pond Animals, Plants and Their Environment Characteristics of Plants Classification of Plants Classroom Projects with Plants Dependent Plants Desert Flowers (r) Desert Life Community Desert Textures (r) Finding Out How Plants Grow Flowers, Fruits and Seeds Forests Forests: A Stable Community From Flower to Seed Fruits Fungi Germination and Plant Growth Great American Desert Green Plants Are Important To Us Green Plants: Food Factories for the World How Seeds Are Scattered Introducing Oceanography - Collecting Plants and Animals by Ship Mushrooms Nature's Half Acre Non-green Plants

Filmloops:

Carpenters Forestry Aids . Fire Fighters



Realia: Barley Birch Bark Cotton Cotton bale Lumber samples Petrified wood Rye Wheat

Slides: Flowers Plants Vegetables Weeds and Wayside Plants Wildflowers

2. Field Trips:

Nature walk Botanical Gardens - Belle Isle Greenhouse S.E.O.V.E.C. Lumber supply store Building construction site Floral shop

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

S.E.O.V.E.C. students Carpenter Landscaper Architect Lumber retailer Florist Cook Baker Parent aids Paper Company representative

. Activities:

Pine cone animals Artificial flowers Leaf booklets - leaf prints Yo-Yo's Handy Dandy Jar holders Plant propagation Dried flower arrangements Cornhusk dolls Planter boxes Fermentation of yeast Collecting - seeds, leaves, flowers Experimentation with compressed peat Seed pictures Leaf and needle collection Growing mold Examine details of leaves, stems and flowers Herb garden



UNIT TITLE: PL

PLANTS AND TREES

CONCEPTS	BEHAVIORAL OBJECTIVES
Science	As a result of th is unit, each child will be able to :
Categorize plants Plant products and uses W Plant growth Photosynthesis	Distinguish between green and non- green plants Discover methods of categorizing plants Identify leaves & needles of 5 species List 10 products made from plants Demonstrate how plant parts are refined and made into materials which are used in baking Identify the variables needed for a plant to grow Investigate and list 3 ways from which plants get their start Identify the variables for a plant to make its own food
Social Studies	
Environment Conservation Affect on man Map skills Newspaper and magazine skills	<pre>Predict outcome of growth of plants under certain environmental conditions Recognize conservation problems List 3 beneficial and harmful plants to man Locate lumber producing states on a map To find, bring in, and display articles from newspapers and magazines about plants</pre>

ERIC

a

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Small business activity	Florist Lumber Retailer Architect Field speakers - Lawrence Tech.
Creative writing - leaf booklets Planting activities Research Guest speakers	
Guest speakers and research Field trips and small business activity	
Plant and flower activities	



UNIT TITLE:

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Time	Compute man hours involved in activities
Measurement	Measure by the inch for correct spacing of plants
Numerical sequence	Number pages in a book properly
Cost	Compute cost of growing plants
· · · · · · · · · · · · · · · · · · ·	
Communication Skills	
Research and writing skills	Gather data on plant types
Creative writing	Write creative stories Write job descriptions Write thank-you notes to parents Write letters for seed catalogs
Career/Self-Awareness	
People and their job roles	
Tools	List five tools necessary for occupations connected with plants
Management	Role play managing a small business -
Production	florist shop Produce artificial flowers Grow plants started from stems, bulbs,
Service	seeds, and roots List seven service occupations related to plants and trees
Analysis of interest	Given a list of activities that you like to engage in, identify three general interests
	reflected in the list (e.g., outdoor activities, art, etc.)
	427

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
Children took turns watering our green	nouse
Experiments and activities involving pla	ants
Research	
•	
· · · · · · · · · · · · · · · · · · ·	
·	
Group discussion and manual	
Group discussion and research	Joe Klier (SEOVEC) sent two high school
Drew pictures tracing clothes we had on we eat - back to plants and the soil (e. shoes made out of leather - leather come cows - cows need grass or grazing lands grow in soil)	 boys to help us root geraniums and food Wandering Jews in Jiffy Sevens. Boys g., talked about the Vocational High School and explained the following: which 1) how it is correlated with Dondero 2) how they find jobs through Mr. Klin
Drew pictures tracing clothes we had on we eat - back to plants and the soil (e. shoes made out of leather - leather come cows - cows need grass or grazing lands	 food food Wandering Jews in Jiffy Sevens. Boys g., s from which Which and explained the following: 1) how it is correlated with Dondero 2) how they find jobs through Mr. Klin 3) how they hope to have their own
Drew pictures tracing clothes we had on we eat - back to plants and the soil (e. shoes made out of leather - leather come cows - cows need grass or grazing lands grow in soil)	 food food wandering Jews in Jiffy Sevens. Boys talked about the Vocational High School and explained the following: which how it is correlated with Dondero how they find jobs through Mr. Klind how they hope to have their own business in two years We were able to show the importance of math, language as well as science in a landscaping business Paper company representative
Drew pictures tracing clothes we had on we eat - back to plants and the soil (e. shoes made out of leather - leather come cows - cows need grass or grazing lands grow in soil)	 food food Wandering Jews in Jiffy Sevens. Boys talked about the Vocational High School and explained the following: which how it is correlated with Dondero how they find jobs through Mr. Klid how they hope to have their own business in two years We were able to show the importance of math, language as well as science in a landscaping business
Drew pictures tracing clothes we had on we eat - back to plants and the soil (e. shoes made out of leather - leather come cows - cows need grass or grazing lands grow in soil)	 food food Wandering Jews in Jiffy Sevens. Boys s from which and explained the following: how it is correlated with Dondero how they find jobs through Mr. Klind how they hope to have their own business in two years We were able to show the importance of math, language as well as science in a landscaping business Paper company representative Landscaper
Drew pictures tracing clothes we had on we eat - back to plants and the soil (e. shoes made out of leather - leather come cows - cows need grass or grazing lands grow in soil)	 food food Wandering Jews in Jiffy Sevens. Boys talked about the Vocational High School and explained the following: which how it is correlated with Dondero how they find jobs through Mr. Klind how they hope to have their own business in two years We were able to show the importance of math, language as well as science in a landscaping business Paper company representative Landscaper Florist
Drew pictures tracing clothes we had on we eat - back to plants and the soil (e. shoes made out of leather - leather come cows - cows need grass or grazing lands grow in soil)	 food food Wandering Jews in Jiffy Sevens. Boys talked about the Vocational High School and explained the following: which how it is correlated with Dondero how they find jobs through Mr. Klind how they hope to have their own business in two years We were able to show the importance of math, language as well as science in a landscaping business Paper company representative Landscaper Florist

I. NAME OF ACTIVITY

LEAF BOOKLETS

II. ACTIVITY FORMAT:

Β.

PAGES

BOOK

COVER

A. Tools and Materials

Leaves Scotch tape Construction paper Rulers Paper punch Pen Scissors Glue Paper fasteners Pencil Tagboard/cardboard Wax paper Iron Material Procedures for this activity (with helpful hints) 1. Collect leaves - went on leaf walk in neighborhood 2. Put leaves between waxed paper and iron until wax melts onto leaves (If wax hardens too fast, place iron on it again to warm it).

- 3. Mount leaves on construction paper with scotch tape.
- 4. Identify each leaf according to a. Name, b. family, c. uses.
- 1. Cut cardboard 9 x 12.
- 2. Cut material 11 x 14 (enough for good overlap).
- 3. Cover cardboard with material. Glue overlap of material to cardboard. (Trim excess in each corner to prevent bulk)
- 4. Place a sheet of construction paper on inside of cover to finish it off.
- 5. Punch holes.
- 6. Assemble pages.
- 7. Fasten with paper fasteners.
- III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

HANDS ON ACTIVITY

I. NAME OF ACTIVITY

CONSTRUCTING YO-YO'S FROM WOOD

II. ACTIVITY FORMAT:

A. Tools and Materials

wood/dowel rods drills paint shellac saws

brushes sandpaper rulers glue string

B. Human Aides and Resources

Designer, carpenter College students

C. Procedures for this activity (with helpful hints)

.

PLAN the jobs well in advance

- 1. Make and trace patterns onto wood
- 2. Cut out circles
- 3. Drill center holes
- 4. File and sand
- 5. Cut dowel rods for axle
- 6. Paint
- 7. Shellac
- 8. Assemble
- 9. String

It takes a long time to file and sand the yo-yo's. Electric sanders shorten the work. Make sure the dowel rods are thick enough or they will break easily. Making the yo-yo's (one for each child) takes a good month.

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>



ERIC

I. <u>NAME OF ACTIVITY</u>

HANDY DANDY JAR HOLDERS

II. ACTIVITY FORMAT:

A. Tools and Materials

Baby food jars Wooden board 15" long Nails Varnish Hammer

B. Human Aides and Resources

Parents Students

- C. Procedures for this activity (with helpful hints)
 - 1. Varnish the piece of wood. Allow it to dry.
 - 2. Wash the jars and their caps thoroughly and dry. Arrange the caps on a piece of wood. Make sure the top side of each cap is against the wood. Nail the caps to the wood. Now screw the jars onto the caps.
 - 3. This is a fine holder that can be fastened under the shelf above his work bench. The screw on jars are great for storing nails and other small items.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

420

,

I. NAME OF ACTIVITY

PLANTING HERB OR SPICE GARDEN

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

A. Tools and Materials

half-gallon milk cartons seeds, slips, or bulbs potting soil and fertilizer plastic bowl and spoon labels

B. Human Aides and Resources

One parent to assist during project - Management! Mothers sending in cartons and seeds, bulbs Local herb club

C. Procedures for this activity (with helpful hints)

Set up assembly line:

1. Cut cartons in half

2. Mix soil and water in bowl

3. Put soil in half cartons

4. Plant seeds, slips, or bulbs

- 5. Label each carton and store
- 6. Keep chart on observable growth
- 7. Harvest and store as time demands

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Ì



I. NAME OF ACTIVITY

PLANT PROPAGATION

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

Grass seed	Dry onion	Cuttings from plants
Bird seed	Sweet potato	Bulbs
Beans	Dirt - containers	

B. Procedures for this activity (with helpful hints)

- 1. Plant duplicates.
- 2. Water one group and place in light.
- 3. Use the others to do experiments with heat, light and water.

I. NAME OF ACTIVITY

TREE PLANTER

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

wood
nails - finishing and
headed
screws
varnish and brushes
saber saw
vises
wood chisels

plastic sandpaper hammer saws brace and bit drill screwdrivers

B. Procedures for this activity (with helpful hints)

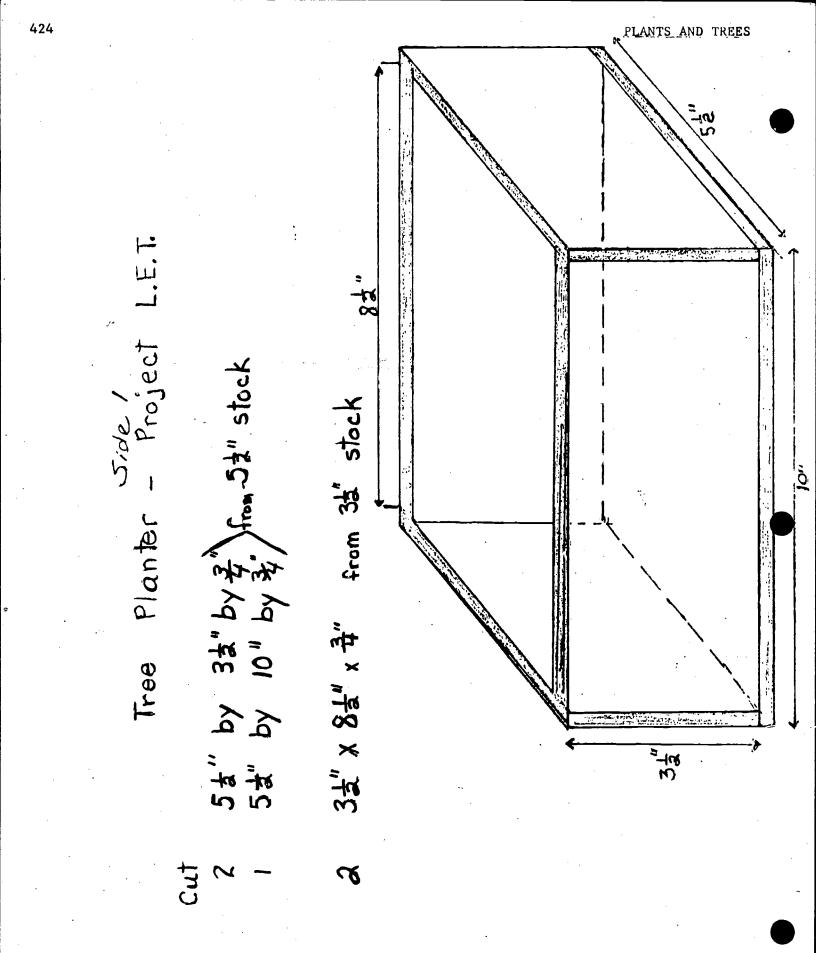
1. Measure 3 sides and 2 ends (3/4")
 sides 2 - 5-1/2" by 3-1/2"
 1 - 5-1/2" by 10"
 ends 2 - 3-1/2" by 8-1/2"
2. Saw

3. Sand

4. Join with nails and screws (see attached sheets)

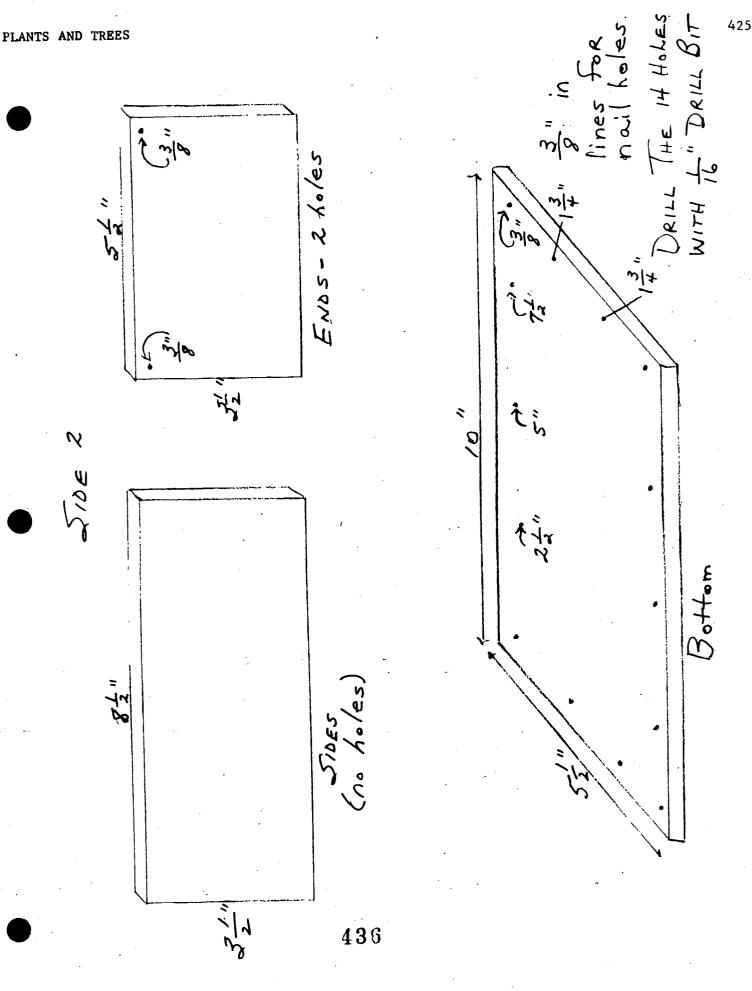
434

- 5. Paint and varnish
- 6. Line with plastic
- 7. Fill with dirt
- 8. Plant tree seeds











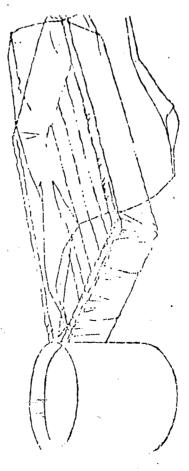
Full Text Provided by ERIC

Representing INSTRUCTIONS Car

Prepagating blocks in this pockage are made from specially treated wood pulp, which Tal comes from trees. The chemical properties of these blocks are similar to the a mod soil, and they have been built wto the block through the efforts of biologis ts treates and engineers. Though nutrients are incorporated to supply a young plant fer the month.

the seeds in the tervitory and back locust which is a native Micrigan tree, renowned for Autable word. It is also a fearme and will therefore add nitrogen to the soil.

MATERIALS NEEDED:



437

1. 4 cup in which to sook seeds

2. A paper to the synthetic soil blacks. A disposable aluminum brailing pare into contrigated buttom is excellent or an empty aquarium could be used.
3. A sheet of physic film. A large "Bushe" will just fit over some of the

is sheet of plastic film. A large "Baggue" will just fit over some of the chemic um breike pape.

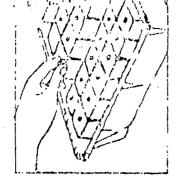
THE PROCEDURE:

(1) It seed in hot works. Get a cup of het white the seed in hot works. Get a cup of het where the second constant during the second seed here a Do not apply and the second set is when here as seeds soak. Soak for four the constant of a cell water and plant.

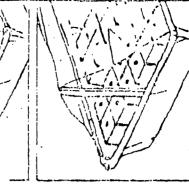


Place synthetic soil blocks in pan and immediately after removing seed from water, place two seeds in each hole. Make sure seeds fall to boufew of hole and do not ching on side. Du not plug up tert over seed.

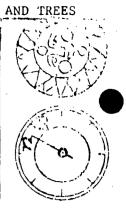
Sledy add lukewarm water to the pan. The dry blocks will rapidly absorb water until they are saferated. Once the Saturation point is reached, add only enough water to cover bottom of pan. It about 1116° of water, if corrugated brailer pansare used, fill up the troughts until the water is over with the ridges. Come with plastic, preferably in tenf-like fashion: of these antricht, einher leave ends open a or punch about ten holes in plastic about the structed a percil. The purpose of the plastic is to it, junzieri Most schools and homes have exitemely lew humidity when heating systems are in operation. This causes rapif, water evapocal on the blacks below the germination respective. On the other hand, extremely high k-midity is favorable to fangus (mold) growth, price the need for some are circulation. (i) partia a room which has a daytime temperable to flottween 72 and 80 degrees, and preferable to a could window where estimat heat from the sun is available. By not place on or immediately over a radiator.



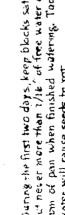




PLANTS







The blocks are light brown when dry, but will appear uniformly and distinctly darker when saturated. If they appeer slightly "mottled" (light dey. If a plastic cover is used, watering will be required only every four or five days. After the should be reasonably dry much of the time. Add dompness for plant growth. They should be fully saturated enly for a few hours immediately after watering and never allowed to get completely second day, there is probably more danger of After the second day, the buttom of the pan water only often erough to keep hlocks moist. and dark spots) they are in the correct range of everwatering than underwatering.

438

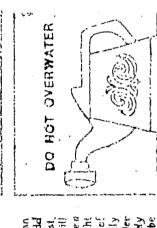
roolness can be reduced by replacing the plasme cever during the duryight hours and removing at When seedlings emerges above the blocks, remove the plastic film. This should be in four to six days. Cut eff one of the piants at block level of more than one plant emerges. If the relative humidity of the man is low, the block will feel cold to the teuch due to evaporation. This evaporation and nicht n,

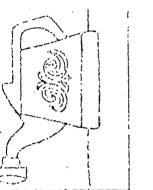
some arrange ments will need to be made to thake . If your school has a Spring or Easter wheatren care of the pick of the section predits and with

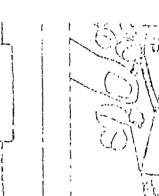
ないにたい

During the first two days, keep blacks saturated, out never more than 1/16" of free water on bottom of poin when finished watering. Too much water will cause seeds to rot

WATER 1/16







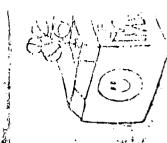
:: If transplanting is desired, fatlow these stimple 5

PLANTS AND TREES

- A. Add a little fine soil to fill the hole in the block.
- Separate blocks gently by tearing away from the coke. Do not attempt Saturate 3R-8 blocks completely تفظ
- to remove the BR-6 block from the Place the rooted block into the soil. rootsystem of the plant.
- The tree seedlings will do better in sandy loam than in heavy clay soils. Fill in around the block with soll so ۵.
- Firm in by watering or lightly packing the soil around the block so as not to that the block is covered. ші u.
 - cause mechanical demage to the root Water plants thoroughly. evstem. G

9. 19.





it on the functional gradies are all tread with grinnlingle and set its for the constraints of the constrain . :

·

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

PLANTER BOXES

II. ACTIVITY FORMAT:

A. Tools and Materials

Hammer	i.	Seeds	3				
Nails		Hand	Saws	(cross	cut,	back,	saber)
Plastic 1:	iner	Wood	(1/2"	'plywo	od)	· · · ·	
Dirt							· · ·

B. Procedures for this activity (with helpful hints)

- 1. Measure and draw lines on wood
 (2 4" x 6", 2 4" x 4", and 1 6" x 4")
- 2. Cut wood
- 3. Nail sides to bottom
- 4. Nails sides to sides
- 5. Line boxes with plastic
- 6. Plant seeds

I. NAME OF ACTIVITY

ARTIFICIAL FLOWERS - ROSES

II. ACTIVITY FORMAT:

A. Tools and Materials

Wire cutters Scissors Pencil Loaf of bread Elmer's glue Food coloring Florist clay Artificial green foliage Halves of walnut shells

B. Procedures for this activity (with helpful hints)

A. Roses

1. Each person has 1/2 slice of white bread

- 2. Remove crust
- 3. Break bread into small pieces
- 4. Add 1 tablespoon Elmer's glue and small amount of food coloring
- 5. Knead until bread and glue workable clay
- 6. Place clay about size of a pea between wax paper
- 7. Roll with a pencil until clay is very thin
- 8. Uncover and cut in half lengthwise

9. Roll one of the halves into tight scroll (this is center of rose)10. Take remaining half and form into many tiny balls

11. Flatten each ball by pressing it with your thumb

12. Add each flattened piece as a petal around scrolled center

- 13. When rose is formed place piece of green wire for a stem
- 14. Allow to dry overnight
- 15. Spray varnish when dry

B. Holder

1. Fill empty half of walnut shell with green floral clay

C. Arrangement

1. Place roses in clay container

2. Fill in with a few pieces of green plastic plant

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

I. NAME OF ACTIVITY

ARTIFICIAL FLOWERS

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

ScissorsKleenexWire-cuttersYarnShellacClothEgg cartonsWireBrushesGreen tapeStaplersPipe cleanersPaintFunction of the state

в.

Procedures for this activity (with helpful hints)

A. Paper flowers -

1. Fold Kleenex or squares of tissue paper (toilet tissue great) into fan (Rt, left, rt. etc.). Use 4 layers.

2. Tie in center.

3. Pull up layers, by layer. Pull toward center.

4. Insert pipe cleaner for stem. Glue conter together where open.

B. Cardboard flowers -

1. Cut out egg cups from egg cartons

2. Cut four petals from each cup

3. Tie yarn and staple in center

4. Insert wire or pipe cleaner for stem

5. Paint petals

6. Shellac

C. Cloth and wire flowers -

1. Variety scrap cloth cut into petal shapes

2. Take 6" piece thin wire, loop at top

3. Paste 2 petal cloth forms over wire to cover

4. Repeat these steps 3 more times to form 4 petals in all

5. Place all petals (4) on wires together

6. Insert curled pipe cleaner for center

Tape four wires together with green wire tape - forms
 1 - 4 petal flower with stem

8. Bend petals into shape to form 3-D flower



I. <u>NAME OF ACTIVITY</u>

DRIED FLOWER ARRANGEMENTS

II. ACTIVITY FORMAT:

A. Tools and Materials

Gather weeds in field Small vases Spray paint Styrofoam

B. Human Aides and Resources

Teacher

C. Procedures for this activity (with helpful hints)

If possible, have a florist come in to discuss flower arranging beforehand. If this isn't possible, demonstrate this yourself.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Children experienced difficulty in arranging flowers in an attractive manner.

Make small mushrooms out of cornstarch and baking soda (recipe is on Arm and Hammer Baking Soda bos). Place on wooden bark and decorate with acorn, etc.

I. NAME OF ACTIVITY

432

CORNHUSK DOLLS

II. ACTIVITY FORMAT:

A. Tools and Materials

Cornhusks Scissors String Paint

B. Human Resources

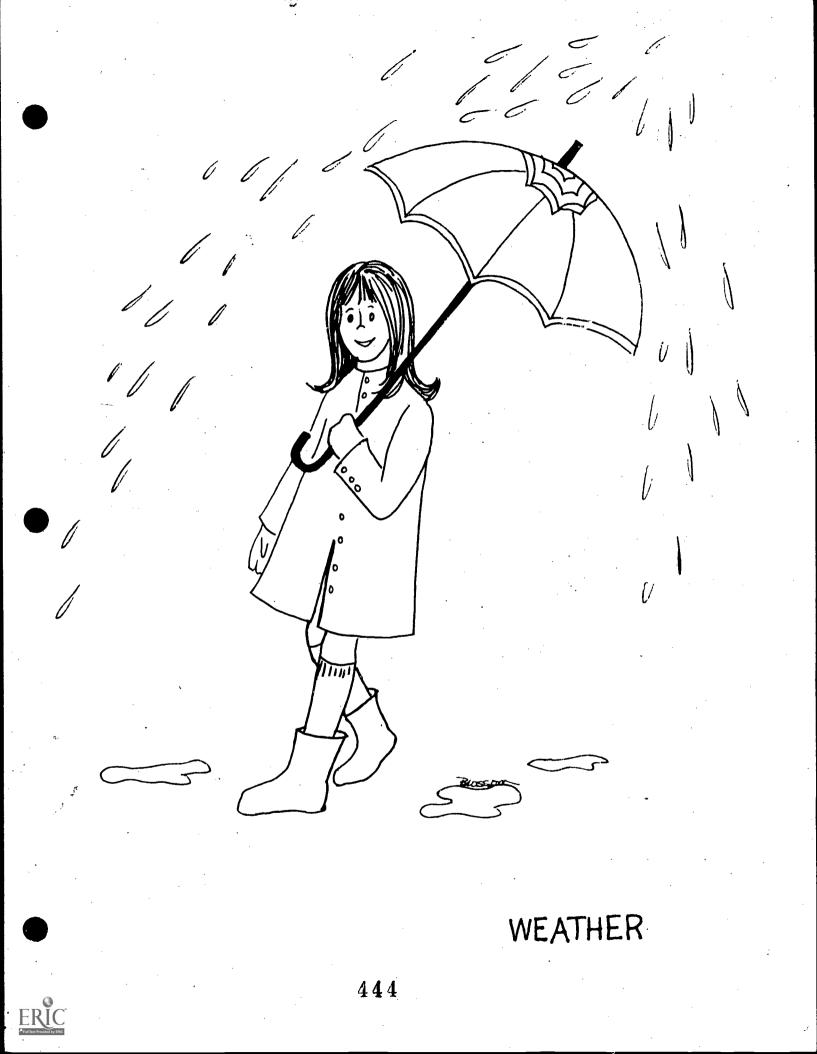
Teacher

C. Procedures for this activity (with helpful hints)

Discuss and show children various cornhusk dolls made by the American Indian.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Experiencing the difficulties encountered in making the dolls. Manipulation of cornhusks into a useful and attractive form. Observing uses of plant materials.



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

WEATHER

3-4

GRADE LEVEL:

GENERAL OVERVIEW:

All living things must make adjustments to weather conditions if they are to survive. Children need to be acquainted with weather terms and forms. They need experience in predicting weather by using weather instruments.

TEACHING/LEARNING RESOURCES:

1. Reference Materials:

Books: ABC Science Series 3 How Weather Affects Us The Wind - Bendick Exploring the Weather - Gallant What is Weather? - Syrocki Probe

Films: Rainshower The Sky How Weather Helps Us Let's Learn to Predict the Weather Origins of Weather Weather: Understanding Storms

Filmstrips: Air, Wind, Weather Weathering at Work Our Weather Weather Bureau What Makes Weather Clouds Sun, Wind, Rain Adventures of a Raindrop

2. Field Trips:

Airport Weather walk in neighborhood



Weather for Beginners What Makes Rain Lightning and Thunder

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

College students Weather forecaster Pilot

4. Activities:

Pinwheels Rain gauge Dog barometer Wind sock Wind vane Daily recording of weather Bird feeder Make filmstrip

13

UNIT TITLE: WEATHER

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Science	
Weather	Describe the day's weather
Conditions	List three different forms of weather
Predictions	Read weather instruments and make predictions based on the readings
Instruments	Construct a weather instrument
×	
Math	
Measurement	Read and compute degrees on a thermometer
·	
Social Sciences	
Weather affecting people and animals	List five ways weather affects people and their occupations and animals
•	
·	
	447

ER

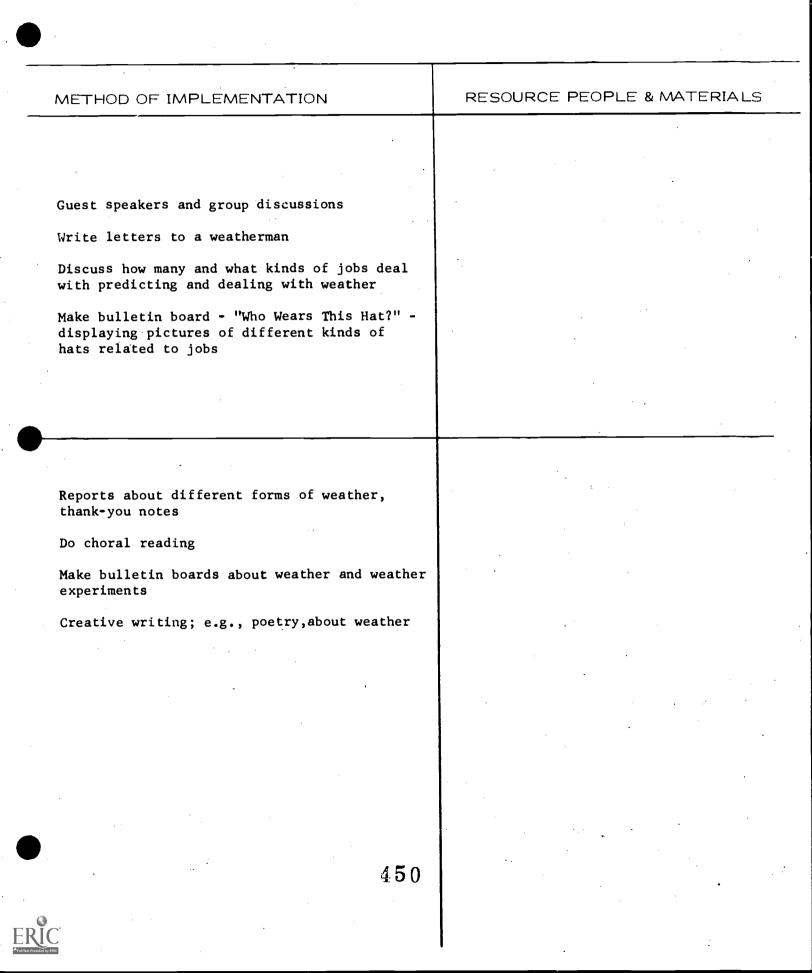
METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Observation - (reading reports, reading weather instruments, research, listening to weather reports)	College students Weather forecaster Pilot
Weather instrument activities	
Taking and recording daily temperatures Take temperature inside and out. Record daily for a month Made booklets with daily predictions. Compare	
with newspapers A child reports weather forecast each day Have a large chart in room with detachable	
card to show temperature for day and a picture showing what the day is like	
Observation, research, group discussion	

ERIC ^AFull Toxt Provided by ERIC 448

UNIT TITLE: WEATHER (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Career/Self-Awareness	
Maalging	Describe or draw pictures of a weather station
Producing	Give a weather report and explain how a weather report is forulated
Servicing	Explain three ways a weatherman services man
•	
Communication Skills	
Creative writing	Write a report, letter, poem or story about weather
Choral reading	Participate in a choral reading
· · · · ·	
	،د. ۱

EI



I. NAME OF ACTIVITY

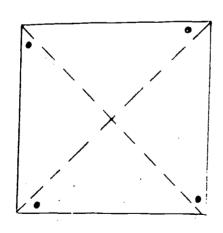
PINWHEEL

440.

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

```
Paper 6" x 6"
Paste
Pins
Pencil with eraser on tip
```

- B. Procedures for this activity
 - 1. Divide the paper in quarters diagonally and put a dot in the corners as illustrated.
 - Cut along the dotted lines to about 1/2" from center dot.
 - 3. Bend over the corners with dots and paste each point to the center of the paper.
 - 4. Push a pin through the middle into the eraser of a pencil.





I. <u>NAME OF ACTIVITY</u>

RAIN GAUGE

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

A. Tools and Materials

Ruler Jar String

- B. Procedures for this activity
 - 1. With two pieces of string, tie the ruler to the outside of the jar.
 - 2. Set outside where jar will catch rain.
 - 3. Measure after every rain and record the amount of water in the jar.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

DOG BAROMETER

II. ACTIVITY FORMAT:

A. Tools and Materials

dremel saw pencils

paint brushes

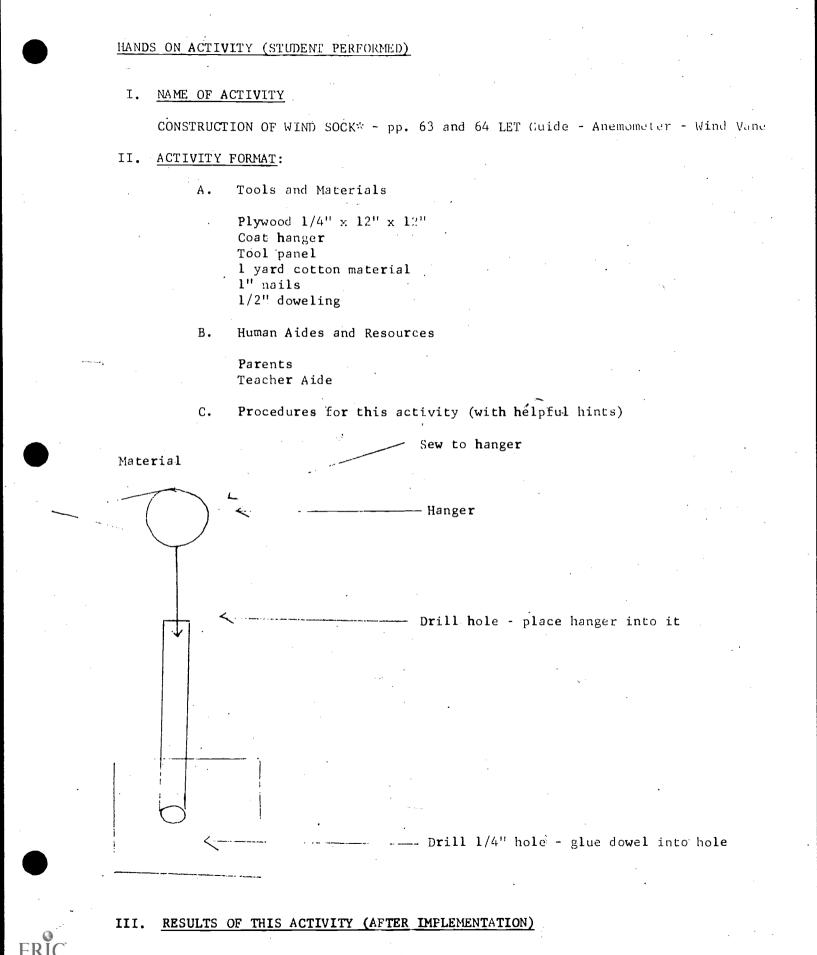
drill
white pine - 2 pieces - 1/2" x 7" x 3"
plywood - very thick - 1/4" x 8" x 12"
blotter paper - two 3" x 3" squares per dog
cobalt chloride - water mixture (4 parts to 1)
colored construction paper

B. Procedures for this activity (with helpful hints)

- 1. Have children cut plywood in shape of a dog's head
- 2. Drill out large circles for the eyes
- 3. Paint the blotter paper with the cobalt chloride
- 4. Paint the dog's features
- 5. Make ears from construction paper
- 6. Glue blotter paper under the eye holes and ears onto head

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

45.3



I. NAME OF ACTIVITY

WEATHER VANE

II. ACTIVITY FORMAT:

A. Tools and Materials

tag board large wooden spools plastic straws scissors pins or nails

B. Human Aides or Resources

Weather Experiments by I. Podendorf

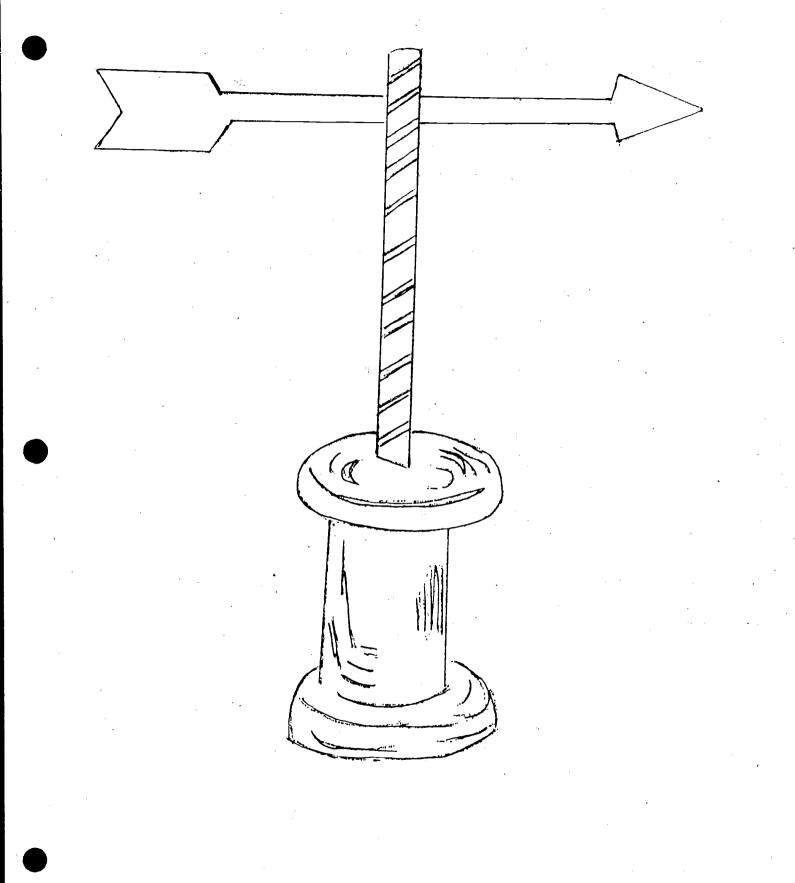
- C. Frocedures for this activity (with helpful hints)
 - 1. Put a long pin up through a large spool (preferably wood)
 - 2. Set plastic straw on the pin so it can turn freely
 - 3. Slit plastic straw at top

4. Glue arrow from tag board on the straw





A. WEATHER VANE





I. NAME OF ACTIVITY

CHORAL READING

II. ACTIVITY FORMAT:

A. Tools and Materials

Copies of poem for each member of class Tape recorder

B. Procedures for this activity (with helpful hints)

Assign parts, practice, record

THE WIND

I heard the wind blow. The great trees swayed, I saw the wind blow. The sky grew black, It whistled, And it rained, It whirred, And it stormed, It whirled. And it poured.

The branches crackled.

The green leaves shook,

And twisted,

And trembled,

And curled.

The wind blew loud,

The wind blew long.

It rumbled,

It thundered,

It roared.



WEATHER

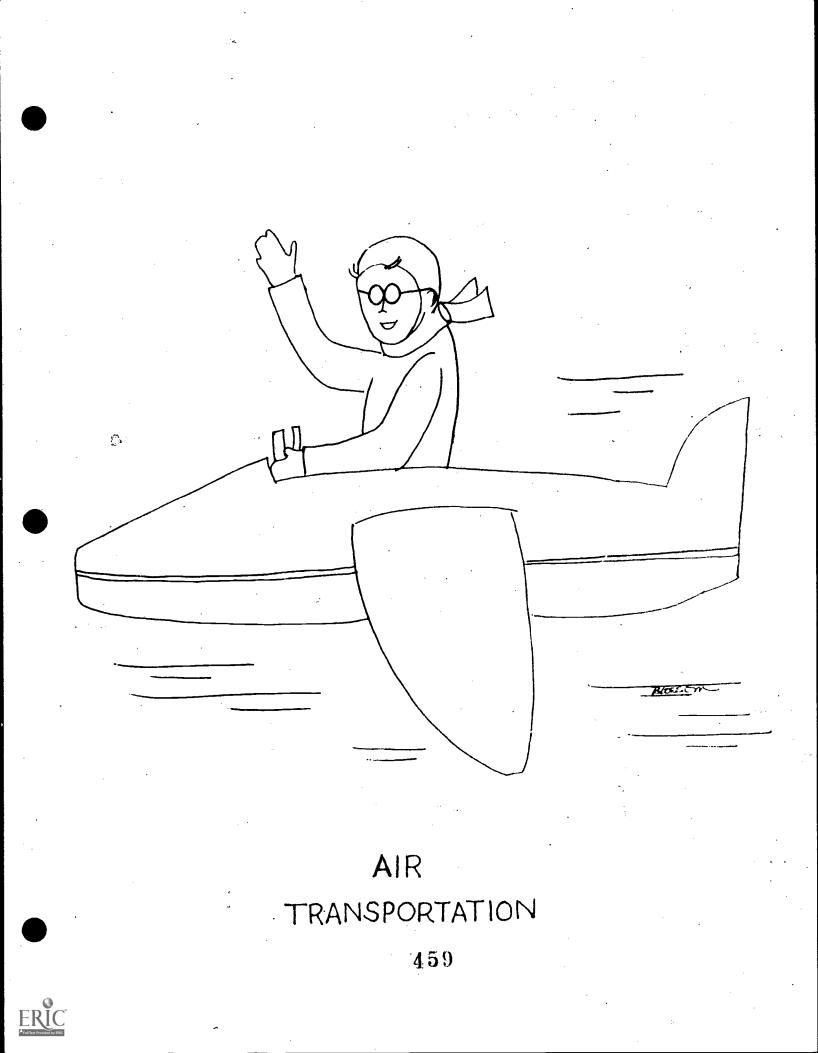
WEATHER

(Choral Reading)

<u>A11</u>	Weather is Full of the nicest sounds
<u>1</u>	it sings (bell - triangles)
2	it rustles
<u>1 & 2</u>	and pings and pounds (drums and triangles)
<u>1</u>	and hums and twinkles (sand block and triangles)
2	and strums and twangs (soft drums)
<u>1</u>	and whishes (voice)
2	and sprinkles (triangles)
1 & 2	and splishes (wood block)
<u>1</u>	and Bangs (drum)
<u>2</u>	and mumbles
<u>A11</u>	and grumbles and rumbles and flashes and crashes:
<u>1</u> .	I wonder
2	if thunder frightens a bee,
<u>1</u>	a mouse in her house,
2	a bird in a tree,
<u>1</u>	a bear
2	or a hare
<u>1</u>	or a fish in the sea?
<u>A11</u>	NOT ME!!!!



458



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

NAMA Source word?

	· · · · · · · · · · · · · · · · · · ·			
INTEGRATED TEACHING UNIT PLANSHEET				
TITLE:				
	TRANSPORTATION - AIR TRANSPORTATION - (AVIATION)			
GRADE LEVEL:	3-4			
<u>CENERAL OVERVIEW</u> :	The purpose of this unit is to help the children realize the affects of air transportation on our society and the importance of the airplane as an invention of the twentieth century.			
TEACHING/LEARNING	RESOURCES:			
1. <u>Reference Mat</u>	erials:			
Books:	<u>Airplanes</u> by Louis Henderson <u>Airplane Book</u> by William Pryor <u>Airport</u> by Paul Witty <u>A Trip on a Plane</u> by Carla Greene			
	<u>At the Airport</u> by Lillian Colonius <u>Helpful Helicopters</u> by Dorothy Allison <u>How Airplanes Are Made by David Clock</u>			
	How to Make and Fly Paper Airplanes by Captain Ralph A. Barnaby Joe's Story of the Airport by Marie Smith I Want to be a Pilot by Carla Greene			
	Model Airplanes for Beginners by H. H. Gilmore On the Airways by Josephine Phillip The Airplane at the Airport by Morris Stuart			
•	<u>The First Book of Airplanes</u> by Jeanne Bendick <u>The First Flying Book by Campbell Talhan</u> <u>The Story Book of Aircraft</u> by Maud Petersham			
	The True Book of Airports and Airplanes by John Bryan Lewellen The True Book of Weather Experiments by Illa Podendorf What Does A Jet Pilot Do? by Robert Wells			
· .	Wonderful Plane Ride by Ruth Weir <u>Open Highways</u> - Grade 4 - Publisher, Scotts, Foresman Wright Brothers			
	<u>Open Highways</u> - pp. 140-147 a) Airplane trip by Jet			
	b) Airport in the Jet Age c) Maps for a Changing World d) Jet Pilot			

e) Principles of Flight



E

Filmstrips:

What Make An Airplane Fly Science at the Airport How Do Jets Fly Airplanes How Do Helicopters Fly What Makes an Airplane Fly Air Systems (with cord) Air Transportation Weather Instruments

Filmloops:

Stewardess Cooks and Chefs Airplane Mechanics

Realia: Airline maps showing flying routes Airplanes - paper, plastic, and wooden Weather instruments Pictures of planes secured from different airlines Air schedules Weather and air charts

2. Field Trips:

Metropolitan Airport (tour) Oakland Airport Pontiac Airport

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

College students Parents Tour Guide Security Official 'ummercial Pilot Stewardess 747 Chef - Metro Airport

4. <u>Activities</u>:

Role playing 1) simulated flight take off - landing 2) simulated flight to Chicago Make gliders Weather instruments 1) wind sock 2) weather vane

Construct paper airplanes Construct and design a model plane Construct gliders Make an Air Force or Airplane Museum Prepare food - Flight

461

UNIT TITLE: TRANSPORTATION - AIR TRANSPORTATION - (AVIATION)

CONCEPTS	BEHAVIORAL OBJECTIVES
Social Studies	As a result of this unit, each child will be able to:
Maps: locations directions charting flights	Discriminate directions on map Differentiate continents and oceans List different uses for air transportation
Aircraft transportation	List ecology problems associated with airports Make a time line of the history and develop- ment of aviation Cite evidence for the growth, changes and the improvements in aviation Compare and contrast at least two different kinds of air transportation
Science	· · · · · · · · · · · · · · · · · · ·
Principles involved in flight - use of air to life and moving things Use of weather instruments in air transportation Computed flying time and miles per hour Wind direction - air pressure Effects of weather conditions on flying Aerodynamics Weather instruments	Explain how air moves and lifts things Identify use of two air instruments as an aid to air transportation List effects of air transportation on environ- ment Construct an airplane which would be balanced when hanging from a string Construct wind vane, wind sock, or anemometer



ERIC

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS		
1. Brainstorming	Airport employees		
2. Simulate a "take off" and "landing"	Air Traffic Controller		
3. Simulate a flight to Chicago	Cartographer (map maker)		
4. Make an air force or airplane museum	U. S. Coast Guard		
5. Discuss famous flights	Students		
6. Discuss famous planes	Cook - Chef		
7. Read stories and poems on flight			
8. Construcț paper airplanes			
9. Experiment planes and weather instruments			
10. Fly paper airplanes			
ll. Discuss results			
12. Construct gliders - Balsa			
13. Construct weather instruments used at airport			
14. Discuss films and filmstrips			
15. Choral reading of poems and plays			
16. Prepare menu and food for flight - role playing			
17. Practice reading air schedules			
18. Make up schedule for trip			
•			



UNIT TITLE: AIR TRANSPORTATION - AVIATION (Continued)

NCEPTS	BEHAVIORAL OBJECTIVES	
· · · ·	As a result of this unit, each child will be able to:	
Math		
Telling time Linear measurements Counting money Scheduling (flights) Cost of flight change Mileage tables Measuring and balancing Coordinate geometry	Use a ruler Count out money for plane ticket Tell length of duration of imaginary plane trip Schedule a flight to own destination/compute amount of time in flight Compare and contrast two different types of planes Gather data pertaining to a specific model plane Use measurement for construction activities; all math processes for computing costs	
Communication Skills		
Letter writing Choral reading Story writing Role playing Reading time tables Informational essay Library research to gain informa-	Write stories; e.g., "If I were a pilot, stewardess, etc." Write thank-you letters Read a time schedule and mileage chart Gather information on plane Write a report (old planes)	
tion Relating reading activities (reade		
workbook) Research skills		
······································		
	· · ·	
·		

ERIC Pruit Text Provided Byr ERIC

	METHO	DD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
		· · · · · · · · · · · · · · · · · · ·	
	19.	Collect, study, show, discuss insignia of airlines around the world	
	20.	Recite a trip by air	
	21.	Obtain information by letter from airlines	
	22.	Take imaginary trip as a class	
	23.	Write stories of air disaster or high jacking	
•	24.	moleted to sim thereas antistica.	
	97990000-	Weather man - meterologist Air traffic controller Mechanic Pilot Navigator Stewardess	
		Chef Truck driver Luggage man Customs agent	
		Hotel workers (maid, desk clerk) Restauranteur Waitresses Insurance salesman Janitors	
		Ticket stamper or collector Vendor machine man Reservation clerks Policeman Barber	
	25.	Role play in simulated flight all related job	
-	26.	Field trips to airport	
EDIC.		465	
]

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Art	
Proportion	Make a puppet
Space relationship	Make scenery for puppet show
·	
Career/Self-Awareness	
Managing of people and things Servicing on plane a) pilot b) co-pilot c) flight engineer d) steward-stewardess Servicing on ground a) air traffic/controller b) weatherman c) reservation clerk d) ticket agent Production Formulating identity	List five jobs available in area of air transportation List five occupations involved in the operation of an airport Identify the interdependence of jobs involved in the service occupations; i.e., pilots, co- pilots, steward, stewardess, porter, ticket agent, advertising agent, food handlers, ground crew, chief, etc.) Identify three characteristics of jobs (training) Identify three service industries: goods producing industry List at least three jobs necessary for mainte- nance of a plane
Self-Concept	Explain how each of the following contributes to a person's concept of who he is: things you like about yourself, things you don't like about yourself, things you feel you can accomplish, that you are good at, and things you don't feel you can accomplish, that you are not good at
	·
• • • •	
• •	
9	466

455

ERIC

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
	•• •
Role playing Field trips	
"Me Books"	



I. NAME OF ACTIVITY

CONSTRUCTING GLIDER

II. ACTIVITY FORMAT:

A. Tools and Materials

Scissors Paper clips

B. Resources

Rolling Along Duplicating Masters by Scott Foresman

C. Procedures for this activity (with helpful hints)

1. Mimeograph helicopter for children (see next sheet)

468

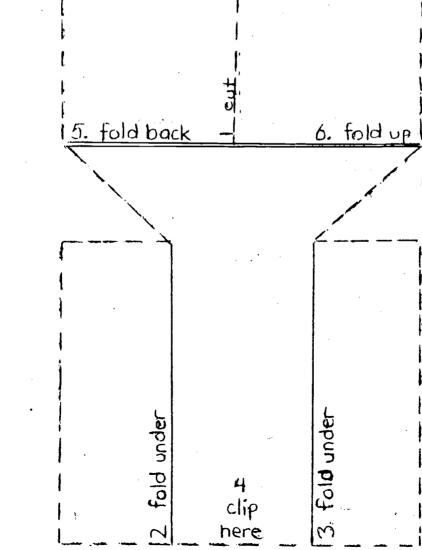
2. Cut out helicopter and clip

3. Stand on desk and drop helicopter

AIR TRANSPORTATION

469





I. NAME OF ACTIVITY

CONSTRUCTING PAPER AIRPLANES

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

Scissors Stapler Duplicating paper

B. Resources

How to Make and Fly Paper Airplanes by Ralph S. Barnaby

C. Procedures for this activity (with helpful hints)

- 1. Fold and staple
- 2. Experiment by making blunt rather than pointed nose to illustrate air resistance
- 3. Discuss lift and thrust

nite

4. Have contest to determine which homemade plane stays in flight longer

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





I. NAME OF ACTIVITY

CONSTRUCTING WEATHER VANE

II. ACTIVITY FORMAT:

A. Tools and Materials

Tagboard Large wooden spools Plastic straws Scissors Pins or Nails

⁹B. Resources

Weather Experiments by Illa Podendorf

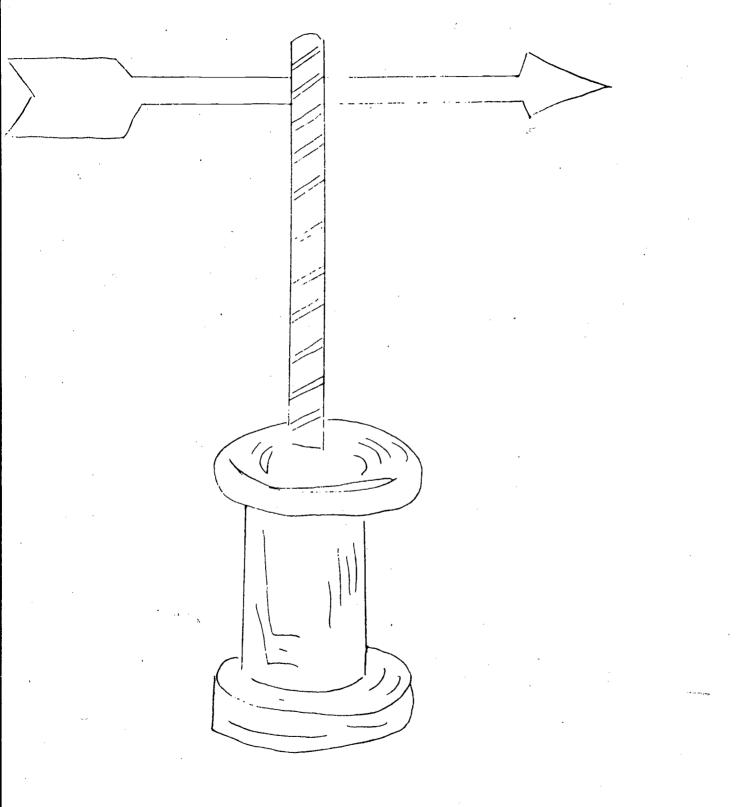
- C. Procedures for this activity
 - Put along pin up through a large spool preferably wood (If spool is too light or small, pound nail through small piece of plywood and set spool over nail).
 - Set plastic straw on the pin (or nail) so it can turn freely.
 - 3. Slit plastic straw at top. Glue arrow made from tagboard on the straw.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)





WEATHER VANE





I. NAME OF ACTIVITY

CONSTRUCTION OF WIND SOCK* (pp. 63 and 64 LET Guide Anemometer - Wind Vane)

II. ACTIVITY FORMAT:

A. Tools and Materials

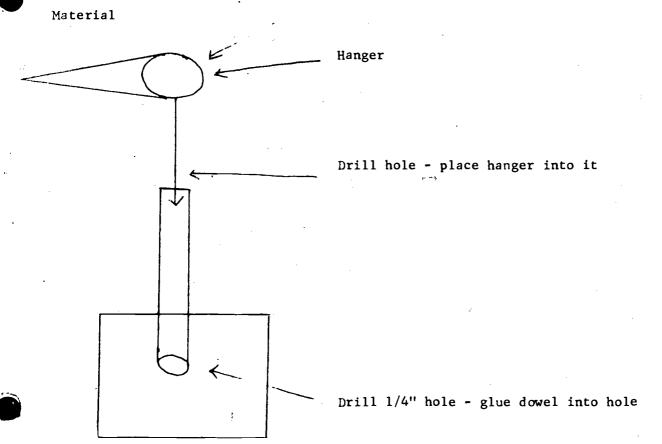
Plywood 1/" x 12" x 12" Coat hanger Tool panel l yard cotton material l" nails 1/" doweling

B. Human Resources

Parents Teacher aide

C. Procedures for this activity

Sew to hanger





AIR TRANSPORTATION

ROLE PLAYING ACTIVITY

SIMULATED FLIGHT TO CHICAGO

- 1. Have all student choose a role of either crew, passenger, food handler, or other necessary job.
- 2. Divide into committees to plan and execute details, props, etc.
- 3. Have pilot and co-pilot draw and design a paper copy of dash and regular dials of plane.
- 4. Arrange chairs in airplane style make some type of seat belts.
- 5. Write out and distribute tickets for passengers use blank tickets if possible.
- 6. Have food handlers plan and prepare snack to be served on flight.
- 7. Provide appropriate sound effects through use of tape recorder.
- 8. Have stewardess serve snack on trays to passengers on flight.
- 9. Have pilots write a script to announce destination, weater conditions, mileage, etc., to passengers.
- 10. Have passengers make cardboard suitcases to carry on board
- 11. Films: a. Jet Pilot

b. Airplane trip by Jet



474

I. <u>NAME OF ACTIVITY</u>

CONSTRUCT PAPER AIRPLANES TO LEARN BASICS OF FLIGHT, LIFT

II. ACTIVITY FORMAT:

A. Tools and Materials

Mimeograph paper paper clips

- B. Procedures for this activity (with helpful hints)
 - 1. Show and fly teacher-made paper airplane.
 - 2. Show importance of air resistance by letting two papers drop to the floor (one cone shaped, the other a plain, unfolded sheet of paper). Compare the rate of fall.
 - 3. Discuss lift which is the upward force that air exercs on an object aloft.
 - 4. Have students experiment with various folds and kinds of paper to determine which flies best, farthest, etc. (be sure to cut off tip of paper airplane for safety).
 - 5. Have contest to determine which stays in flight longest or travels greatest distance.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

W. W. Laman

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. NAME OF ACTIVITY

CONSTRUCT GLIDERS

- II. <u>ACTIVITY</u> FORMAT
 - A. Tools and Materials

Knife or coping saw to shape balsa wood Balsa wood Rubber bands Glue

B. Human Aides and Resources

Model Airplanes for Beginners by H. H. Gilmore

- C. Procedures for this activity (with helpful hints)
 - 1. Show a commercially bought, inexpensive kit for making a glider out of balsa.
 - 2. Encourage creativity in style and shape of glider's wings, tail.
 - 3. Have each individual construct a glider.
 - 4. Take outside for contest of longest in air, greatest distance.

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)



I. NAME OF ACTIVITY

INSIGNIAS OF AIRLINES

II. ACTIVITY FORMAT:

Α. Tools and Materials

> Tool rack Wood in size of plaques

- Procedures for this activity (with helpful hints) С.
 - Show, study, collect, and discuss insignia of all 1. world's airlines.

Discuss reason for insignia

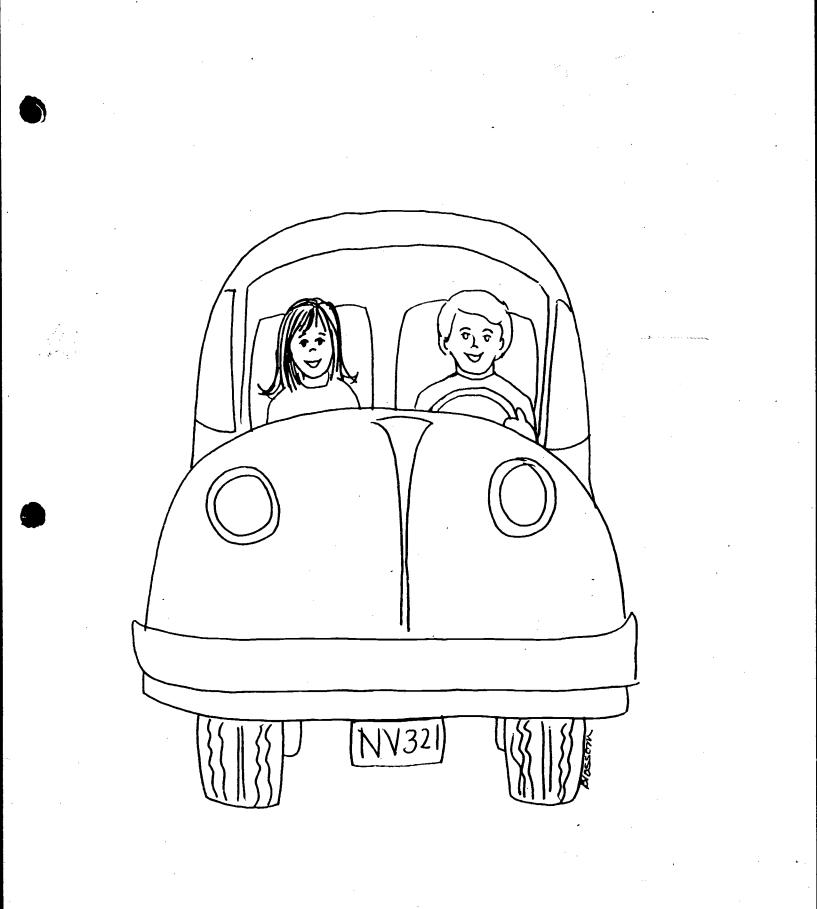
Discuss importance of line, design and colors

- 2. Discuss variety of airlines and how routes of airlines are determined.
- 3. On paper and pencil design insignia for your own imaginary airline corporation.
- 4. Cut, shape, and paint insignia on wooden pieces.
- 5. Display plaques of insignias.
- 6. If children would prefer not to work with wood, they could embroider these insignias on felt with yarn to form a sleeve patch.

RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION) III.







AUTOMOBILES

478



SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

INTEGRATED TEACHING UNIT PLANSHEET

TITLE: AUTOMOBILE TRANSPORTATION

GRADE LEVEL: 3-4

GENERAL OVERVIEW: Children need to realize the affects of automobile transportation on our society.

TEACHING/LEARNING RESOURCES:

1. Field Trips:

Ford Motor Company, Rouge Plant General Motors Tech Center

2. Activities:

Carved model cars from soap Assembly car production





468

--

UNIT TITLE:

CONCEPTS		BEHAVIORAL OBJECTIVES
· · · · · · · · · · · · · · · · · · ·		As a result of this unit, each child will be able to:
Social Studies		
History		List at least two people who were important in the development of cars
Effect of cars		List five effects of cars on our society
	•	
Science Machines		List two different kinds of car engines
		List two car fuels other than gasoline
Math Measurement		Measure distance on an odometer
	÷	
		480

·

METHOD OF IMPLEME	NTATION	RESOURCE PEOPLE & MATERIALS	
Croup discussion and a			
Group discussion and r	research	Designers	
		Engineers	
		General Motors Tech Center Ralph Nader	
· · ·		Kalph Nader	
	<i></i>		
Research		Fuel company representative	
		4 , ¹	
Compute mileage in sto and in automobile ride	ry problems		
	481		
		1	

۰.

÷.

.

Ŷ

UNIT TITLE: AUTOMOBILE TRANSPORTATION (continued)

	As a result of this unit, each
	child will be able to:
Communication Skills	
Writing	Write reports and thank you notes
Reporting	
•	
Career/Self-Awareness	
Production	Describe automobile assembly
	production
Servicing	List several ways automobile industry is a service to mane and man's occupations
	100
	482
DIC.	

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIALS
Research and write reports about historical cars	
Automobile mass production activity	Assembly line personnel
Field trip to assembly plant	
Group discus sion	

483

ERIC ^a full Text Provided by EBIC

472

AUTOMOBILE TRANSPORTATION

HANDS ON ACTIVITY (STUDENT PERFORMED)

I. <u>NAME OF ACTIVITY</u>

CARVE SOAP MODELS

II. ACTIVITY FORMAT:

A. Tools and Materials.

Ivory soap Table knife

B. Procedures for this activity (with helpful hints)

Design a car on paper Carve it out of soap

III. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)

Difficult for third graders.



I. NAME OF ACTIVITY

AUTOMOBILE MASS PRODUCTION

II. ACTIVITY FORMAT:

A. Tools and Materials

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

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

*Denotes pieces

B. Procedures for this activity

1. Cut 3 1/2" wide floor board to 8" length

2. Mark axle lines 1" from end of floorboard

3. Cut 3/4" x 1 1/2" blocks to 3 1/2" lengths

4. Nail hood to base (2 nails)

5. Nail cab to base (from bottom)

6. Nail staples to the bottom of the floorboards

- 7. Sand front of truck
- 8. Sand sides of truck

9. Inspect

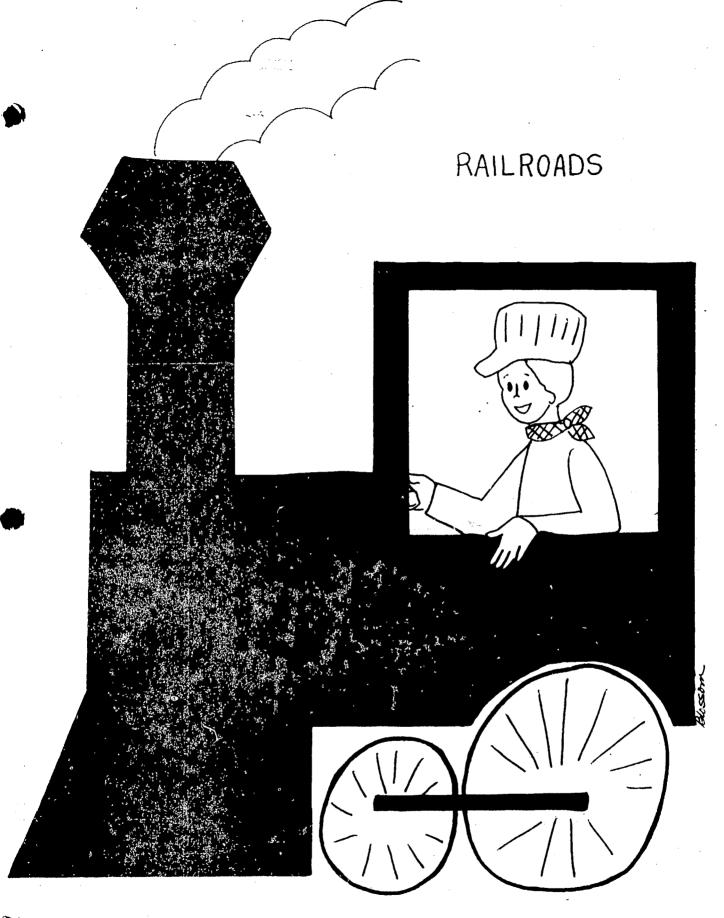
10. Attach wheels and axle to staples (use 2 washers)

11. Cut axles to 4 1/2" lengths

12. Attach one (1) wheel to axle

- 13. Inspect wheel alignment
- 14. Attach headlights
- 15. Final inspection

III. <u>RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)</u>







SCHOOL DISTRICT OF THE CITY OF ROYAL OAK

476

INTEGRATED TEACHING UNIT PLANSHEET

TITLE:

RAIL TRANSPORTATION

GRADE LEVEL: 3-4

<u>GENERAL OVERVIEW</u>: The purpose of this unit is to help the children realize the affects of rail transportation on our society.

TEACHING/LEARNING RESOURCES:

1. <u>Field Trips</u>:

Train Ride Visit freight yard

2. Human Resources:

Parents Train En**gi**neer

Grand Trunk Western Railroad Co. 700 Pershing Pontiac 338-0082 Commuter Information 542-1120 11 Mile Rd. & Sherman Drive Royal Oak

Chicago, Milwaukee, St. Paul and Pacific Railroad 301 W. 4th Royal Oak 399-5656

3. Activities:

Make large freight train Make a mural Train hobby display

UNIT TITLE: RAIL TRANSPORTATION

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Social Studies	Identify five activities related to rail transportation
History of trains Importance of trains	List the reasons for the decrease in passenger use of trains
	Compare use of trains with other forms of transportation in the United States
-	
Science	
Kinds of engines and fuels used in trains past and present	Recognize that trains are run by different kinds of engines
	Match the type of fuel each kind of engine uses
Communication Skills	
Written reports	Gather information for a written report about the history of U.S. trains
Oral reports	Gather information for an oral report
Letter writing	Write a thank-you note
RIC	488

_

METHOD OF IMPLEMENTATION	RESOURCE PEOPLE & MATERIAL
Have a hobby display of model trains	Train engineer
Make reports of old trains for a bulletin board mural	
From films and filmstrips:	
Kinds - diesel	
steam electric	
Fuels - wood	
coal	
diesel oil	
electric - falling water - coal	
- diesel	
- atomic	
,	
· · · · · ·	
Make train con House shildnes could be small	
Make train car. Have children work in small groups (2-3) which select a different kind of	Railroad company
Make train car. Have children work in small groups (2-3) which select a different kind of train car from this list	Railroad company
groups (2-3) which select a different kind of train car from this list Engine	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car Flat Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car Flat Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car Flat Car	Railroad company
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car Flat Car	Railroad company Parent interested in model trains
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car Flat Car Caboose Report on differences between passenger and freight trains	
groups (2-3) which select a different kind of train car from this list Engine Box Car Gondola Car Tank Car Stock (animal) Car Hopper Car Refrigerator Car Flat Car Caboose Report on differences between passenger and	

UNIT TITLE: <u>RAIL TRANSPORTATION</u> (Continued)

CONCEPTS	BEHAVIORAL OBJECTIVES
	As a result of this unit, each child will be able to:
Math	
Measurement	Construct an individual train car measuring 2 ft. x 4 ft. which will be mounted as part
Linear	of a complete train mural
Money	Compare rail shipping costs with air and truck shipping costs
Art	
Proportion and space relation- ships	Make a mural about history of trains
- 	
Career/Self-Awareness	
Jobs related to rail transporta- tion	List five services the railroad provides
Managing a railroad	Describe how railroads are managed by study-
Services that railroads provide	ing the planning, organizing, and controlling functions of a railroad timetable
Analysis of interests	List the activities you like to do and list the activities you voluntarily spend time on - analyze and discuss the degree to which the lists are in agreement with one another

ERIC

480

METHOD OF IMPLEM				
		RESOURCE PEOPLE & MATERIALS		
Comp are sizes of trai Research shipping cos	n cars ts - air, train, trucks	Field Trip: Railroad company Hobby shop		
Cut picturesfrom maga for bulletin board	zines about trains - use	e Train hobby magazines Railroad company		
Brainstorm to get a 1 jobs on chalkboard		Railroad employees		
on passenger and frei	are alike and different ght trains			
FRIC	491			



l.

I. NAME OF ACTIVITY

FREIGHT TRAIN MURAL

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

A. Tools and Materials

Rolled large paper Poster paint Scissors

- B. Procedures for this activity (with helpful hints)
 - Talk about kinds of railroad cars on a freight train and their uses i.e., box car, gondola car, stock car, tank car, hopper car, refrigerator car, diesel engine, piggy back car.
 - 2. Have class divide up into small groups (2-3).
 - 3. Choose a car and do a large printed picture of it.
 - 4. Put completed cars around the room walls.

II. RESULTS OF THIS ACTIVITY (AFTER IMPLEMENTATION)