DOCUMENT RESUME

ED 061 232

TE 499 774

AUTHOR
TITLE
INSTITUTION
PUB DATE

Swan, Nora; Marinaccio, Louis Art Education: Creative Ceramic Arts. Dade County Public Schools, Miami, Fla.

71

NOTE

51p.; An Authorized Course of Instruction for the

Quinmester Program

EDRS PRICE DESCRIPTORS

MF-\$0.65 HC-\$3.29

*Art Education; *Behavioral Objectives; *Ceramics;
Course Content; Course Objectives; *Creative

Course Content; Course Objectives; *Creative Expression; Expectation; History; Instructional Materials: *Skill Development; Task Performance;

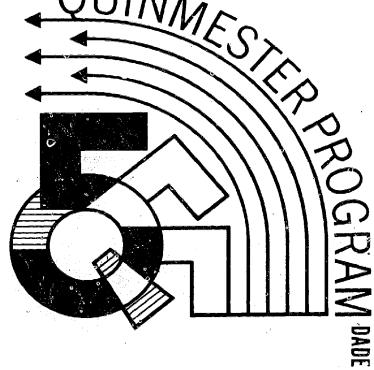
Techniques: Vocabulary
*Quinmester Program

IDENTIFIERS

A course in forming, decorating, glazing, and firing pottery is presented. Upon completion of the course, the student will be expected to be familiar with all terms and characteristics connected with pottery and ceramics, and he will be expected to be able to properly handle and form clay. Course content includes the history of clay handling, methods of clay handling, and the equipment and tools for clay handling. (CK)

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

AUTHORIZED COURSE OF INSTRUCTION FOR THE



Art Education: CREATIVE CERAMIC ARTS 6681.13

6682.13

6687.02

"PERMISSION TO REPRODUCE THIS COPYRIGHTED MATERIAL HAS BEEN GRANTED

BY DADE COUNTY PUBLIC

TO ERIC AND ORGANIZATIONS OPERATING UNDER AGREEMENTS WITH THE U.S. OFFICE OF EDUCATION. FURTHER REPRODUCTION OUTSIDE THE ERIC SYSTEM REQUIRES PERMISSION OF THE COPYRIGHT OWNER."

DIVISION OF INSTRUCTION-1971

DADE COUNTY SCHOOL BOARD

Mr. William Lehman, Chairman
Mr. G. Holmes Braddock, Vice-Chairman
Mrs. Ethal Beckham
Mrs. Crutcher Harrison
Mrs. Anna Brenner Meyers
Dr. Ben Sheppard
Mr. William H. Turner

Dr. E. L. Whigham, Superintendent of Schools
Dade County Public Schools
Miami, Florida 33132

Published by the Dade County School Board



CREATIVE CERAMIC ARTS

Art Cft. 7 6681

Art Cft. 8 6682

Ceram. I 6687

Art Education

Written by Nora Swan Louis Marinaccio

for the

DIVISION OF INSTRUCTION
Dade County Public Schools
Miami, Florida
1971



CREATIVE CERAMIC ARTS

Course enrollment 7-12

Course number:

Art Cft.	7	6681
Art Cft.	8	6682
Ceramic	I	6687

Textbooks:

Kenny, John B., <u>Ceramic Design</u> Philadelphia: Chilton, 1963

Long, Lois Culver, Ceramic Decoration Indianapolis: The American Art Clay Company, 1958

Advanced Training or Vocational Scheme

Pre-vocational



ACKNOWLEDGMENTS

It is with sincere appreciation that we acknowledge those people who helped us with this research. We are very grateful to Mr. Charles M. King who, as Art Consultant, Department of Program Development, Dade County Board of Public Instruction, offered his knowledge, guidance, and encouragement throughout the completion of the work. His thorough knowledge and interest in the area of art education have been of immense help in clarifying the problem to be studied. His suggestions and support of effort on our behalf are greatly appreciated.

Special thanks are due the National Council on the .

Education for the Ceramic Arts, American Crafts Council,

Scholastic Film Strips, Ceramic League of Miami, and Grove

House School of Art for the valuable suggestions they

offered and the time they gave.

The patience, carefulness, and coordinating effort of Mrs. Jennie Myers, the typist of this work, are also greatly appreciated.

Nora Swan Louis Marinaccio



iii

TABLE OF CONTENTS

																						Page
METHO	D		• •			•	•	-	-		-	•	•	•	•	•	•	•	•	•	-	1
COURS	E DES	CRI	PTI	ON	•		•	•	•	-		•	•	٠	•	٥	•	•	•	•	•	1
Compe	tenci	.es	Exp	ect	tec	i c	æ	tì	ıe	Si	tuc	lei	at	u	201	1						
Comple	etior	of	th	e]	3el	nav	/ic	ora	11	O1	oje	ec1	ti،	ve:	3 .0	٦£						
this (Cours	se .		•	•	•	•	•	•	•	•	•	•	•	•	-	-	•	•	•	•	2
I.	Defi	nit	ion	ı aı	nd	Ва	ac}	رqع	CO1	ano	£				•		6					2
II.	Clay							-								٠		۰	•		•	2
III.	Clay								٠			-		•				Ġ	•	a		3
IV.	Deco			_											-			•	-		۰	4
v.	Glaz		-	•											-		•	•			-	5
VI.	Firi										•	-	•	•	•	•	•	•	•	÷	-	6
COURS	e con	TE	7T' .							. •	•	•								•	•	7
																						_
I.	Defi					В	ac)	kgi	co.	un	đ	•	-	-	•	•	-	•	•	•	•	7
	Α.	His	tor	ica	1 £																	
	В.		rtem	_		сУ																_
II.	Clay					-	•	۰	•	٠	•	۰	•	•	•	•	•	•	•	•	•	7
	Α.		chod								c1a	аy										
	в.	_	ıipn							S												_
III.	Clay									٠	•	•	-	•	•	•	•	•	•	•	•	8
	Α.		hoc																			
	В.	_	ıiρπ							s												_
IV.	Deco									•	•	•	•	•	-	•	•	•	•	•	ø	. 8
	Α.		hod																			
	B.	Mat	ceri	al	s :	Eo:	ב כ	de	CO	ra	ti	ng										• •
V.	Glaz	•	_	•	0	•	•	٠	ø	•	•	٠	•	•	•	•	•	۰	•	•	•	10
	A.		hoc																			
	В.		nqiı						1	s												
	c.		pes		_			S														
	D.	Gla	aze	te	xt	ure	es															
	73	<i>a</i> 1.		4~	F a	~ +· c																

iv



																								Pa	ge
VI.	Firi	Pr	ep oc efe	ar ed	in ur	g e	wa fo	re r	fi fi	or ri	ng];	i.i.l	n	• .ri	.ng	•	•	•	•	•	•	•		11
EVALU	OITE	1			•			•		•		•		•					•	•		0			13
RESOU	RCES	FC	R	PU	ΡI	LS	;		•							•		•	•	•	•	•			16
	gesto gesto						• es	•	•			•		-			•			•	•		•		16 16
SUGGES	STED	ΡE	ERI	OD	IC	AI	ıS	E.C	OR	Pί	JP I	LLS	3			0			•				•		20
SUGGE	STED	ΡI	љС	ES	T	O.	v:	[S]	ſΤ	٥	0		۰	•			•		•	•					20
BIBLI	OGRAI	PH3	7		•	•	•	•		•	•	•	•	•	-	•	•	•	•	•	•	•	•		23
										/PE												•			
SUGGE:		MI •	EDI •	A.	RE •	sc •	• •	RCI	ES •	FC	DR •	Pī	JP.	LLS •	5 <i>F</i>	•	•	•	•	•	•	•	•		26
Sli	m St: des tfol:	•	P	•	•	:	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		26 27 29
RESOU	RCES	FC	ΟŘ	TE	ΆÇ	HI	ER	S	•	•	٥	•	•	•	•	•	•	•	•	o	•	۰	•	•	30
Fil	ms .			•,	o	•	•	•		•	•	•			•			•	•	-	•	•	•		30
RESOU	RCE :	PEC	OPI	Έ	•	•	•	•		•	0	•	•	ø	ů	•	•	•	-	o	•	•	•		31
PERIO TEACH		LS •						SS:	•	IAV.	ن ن .•	JO1 •	URI •	IAV •	.s	F(OR.	•		•	•	•	•		33
SUPPI.	TERS		(C)	Lav	75.	. 1	۲i:	ln:	s.	aı	ađ	E	qu.	ipi	nei	at')				۰	•		, •	34



Pa	age
PROFESSIONAL SCHOOLS, UNIVERSITIES AND WORKSHOPS SPECIALIZING IN POTTERY	36
SUGGESTED REFERENCES FOR TEACHERS	40



METHOD

Forming, decorating, glazing, and firing of pottery

COURSE DESCRIPTION

Course providing experience in forming, decorating, glazing, and firing of pottery. Various methods such as pinch, coil, slab and drape will be presented. Students will be encouraged to explore individual interest areas and develop sensitivity to the raw material, feeling for form, and concern for practicality or function.

No prerequisite necessary.



Competencies expected of the student upon completion of the behavioral objectives of this course in writing or orally will be to:

I. Definition and Background

- -Define the term ceramics.
- -Identify outstanding ceramics of the past.
- -Compare the ceramics of prehistoric period to Pre-Columbian.
- -Contrast the characteristics of the ceramic wares of the Ming Dynasty and the Golden Age of Greece.
- -Display a knowledge of the basic kinds of ceramic art from the Ancient Near East.
- -Identify the characteristics of Egyptian ceramic sculpture.
- -Compare and contrast the ceramic art of India, China, Korea, and Japan.
- -Identify and list the characteristics of the ceramic art of the classical world: Crete, Greece, Etrusca, and Rome.
- -List the characteristics of the ceramic art and mosaics of Byzantium.
- -Identify and list the characteristics of the ceramic art of the Renaissance in Europe.
- -Identify and list the characteristics of the ceramic art of the American Indian.
- -Identify outstanding contemporary ceramists.
- -Differentiate between the outstanding ceramics of the past and contemporary ceramics.

II. Clay Handling

- -List the characteristics of clay.
- -Demonstrate the correct methods of handling clay.
- -Demonstrate the process of wedging.
- -Compare the process of wedging to kneading.
- -Demonstrate the proper method of storing clay.
- -List the equipment used in clay work.
- -Demonstrate the proper use and care of the equipment.



III. Clay Forming

- -Identify which objects are best suited for work in clay.
- -List the elements of design as they apply to ceramic
- -Construct simple forms.
- -Develop a sensitivity for the feel and plasticity of the material.
- -Mold open forms, pinch pots, fashion coils and experiment in various methods of construction.
- -Create with clay with concern to the total organization of material, form, and idea.
- -Create ceramics that retain an earthy quality.
- -Demonstrate good craftsmanship with clay.
- -List five methods of clay forming.
- -Identify methods of forming.
- -Differentiate between pinching and coil forming.
- -Demonstrate the method of slab forming.
- -Construct ceramics using the drape method.
- -Construct ceramics using combinations of two or more methods.
- -Construct pottery of uniform thickness throughout.
- -Demonstrate the forming of handles and spouts.
- -Demonstrate the welding of handles and spouts.
- -Demonstrate the methods of forming lids.
- -Demonstrate how to weld clay.
- -Identify leather-hard clay.
- -List the ceramic equipment necessary for clay forming.
- -Demonstrate the proper use and care of the equipment.
- -List the tools necessary to work in ceramics.
- -Demonstrate the proper use of tools.
- -Demonstrate the proper care of tools.
- -Identify the tool and its use in ceramics.
- -Demonstrate skill in the use of tools and materials.
- -Demonstrate the ability to choose those tools best suited for the purpose.



IV. Decorating

- -Create textures on flat surfaces.
- -Design and decorate clay.
- -Demonstrate techniques of decoration that enhance and fit the form.
- -List and define methods of decorating clay.
- -List characteristics of decorating methods.
- -List the basic characteristics of wax resist and rubber resist.
- -List and describe the various procedures employed in mishima, satsuma, slip painting, and slip trailing.
- -List three methods of texturing pottery through impressing.
- -Demonstrate the use of overglaze, underglaze, and engobe.
- -Describe the process of spraying, stenciling, incising, and stamping.
- -Demonstrate the procedures for sgraffito, terra sigillata, inlay, applique, and embossing.
- -Demonstrate the functional use of gloss, semi-matt, and matt glazes.
- -Create ceramics using the various methods of decora-
- -List the tools best suited for wax resist and rubber resist.
- -List the tooms for mishima, satsuma, slip painting, slip trailing, torra sigillata, and engobe.
- -List the tools used in embossing, stamping, and texturing.
- -List the tools used for incising, sgraffito, carving, and impressing.
- -List the tools for applique, sprigging, spraying, and stenciling.
- -Identify basic ceramic materials used in decorating.
- -Exhibit a working knowledge of decorative techniques as employed by contemporary ceramists.
- -Exhibit a working knowledge of material, form, and surface treatment in clay as created by the following contemporary ceramists: Bernard Leach, Gertrude and Otto Natzler, Marguerite Wildenhain, Sheldon Carey, Robert Turner, Peter Voulkos, and Lyle Perkins.



V. Glazing

- -Define the term glaze.
- -Demonstrate the application of glaze by the processes of dipping, pouring, brushing, and spraying.
- -Demonstrate the use of combining methods of glazing.
- -List the characteristics of the following glazing methods: dipping, pouring, brushing, and spraying.
- -Exhibit a working knowledge of using glaze to enhance the natural earthy quality of clay.
- -Demonstrate the proper handling of unglazed and glazed pottery.
- -Demonstrate the process of glaze application as it refers to dry-footing processes.
- -Demonstrate the process of preparing and handling bisque ware in preparation for glazing.
- -Contrast the process of brushing glaze and spraying glaze.
- -Compare dipping to pouring glaze.
- -Identify and define four basic functions of glaze.
- -List and identify three basic types of glazes.
- -Apply glazes properly.
- -Solve the problem of glaze which has become unworkable due to settling or caking.
- -Prepare glazes which fit the clay body.
- -Create a series of test tiles intended for the pretesting of ceramic glazes.
- -Demonstrate the various effects that can be achieved in glazing by retaining some of the natural clay body.
- -Display a knowledge of glazing as it relates to the form and color of the pottery.
- -Demonstrate the process of mixing prepared glazes.
- -Explore and analyze glaze results.
- -List the equipment used for glazing.
- -Demonstrate the proper use and care of the equipment.
- -List the tools used in glazing.
- -Demonstrate the proper use and care of tools used in glazing.
- -List the types of glazes.
- -Identify and describe the qualities of low-temperature glazes.
- -Identify and describe the qualities of high-fired glazes.
- -Identify and describe middle-temperature glazes.



- -Compare and contrast the characteristics of lowtemperature glazes, middle-temperature glazes, and high-fired glazes.
- -List and identify the four basic glaze textures: transparent, opaque, gloss, and matt.
- -List the characteristics of the four basic glaze textures: transparent, opaque, gloss, and matt.
- -Exhibit a working knowledge of glaze texture through analysis of works of contemporary ceramists.
- -Identify and describe glaze flaws due to defects in the clay body.
- -List glaze defects due to glaze composition.
- -Identify and describe glaze defects due to glaze composition.

VI. Firing Ceramic Wares

- -Demonstrate the proper procedure for drying pottery.
- -Define the term "bone dry."
- -Become familiar with the kiln manual.
- -Demonstrate the procedure for stacking the kiln for bisque firing and glaze firing.
- -List the equipment necessary for firing the kiln.
- -Define the term "kiln."
- -Demonstrate the process of applying kiln wash.
- -List two methods of measuring and controlling kiln temperature.
- -Differentiate between pyrometric cone and pyrometer.
- -Demonstrate the process of measuring kiln temperature.
- -Demonstrate the process of removing ware from kiln.
- -List and identify at least six defects due to improper firing.
- -List and identify glaze defects caused by improper cooling of the kiln.
- -Identify and analyze firing defects due to poor construction of ceramic ware.
- -Differentiate between flaws caused by overfiring and underfiring of glaze.



COURSE CONTENT

I. <u>Definition and Background</u>

A. <u>Historical</u>

- 1. Prehistoric
- 2. Egyptian
- 3. Ancient Near East
- Asia: (India, China, Korea, and Japan)
- Classical: (Crete, Greece, Etrusca, and Rome)
- 6. Byzantium (Rome)
- 7. Islam
- 8. Pre-Columbian
- 9. Renaissance in Europe

B. Contemporary

· II. Clay Handling

A. Methods of handling clay

- 1. Wedging
- 2. Kneading
- 3. Conditioning
- 4. Storing

B. Equipment and tools

- Wedging boards with cutting wire and canvas
- 2. Pug mill (optional)
- 3. Large heavy-duty cans and crocks
- 4. Plaster bats
- 5. Natural sponges
- 6. Flexible rubber



7

III. Clay Forming

A. Methods of forming

- 1. Pinch
- 2. Coil
- 3. Slab
- 4. Drape
- 5. Combined methods

B. Equipment and tools

- 1. Setstone bat 8 inch
- 2. Sheepswool sponge
- 3. Damp box
- 4. Polyethylene plastic bags
- 5. Aluminum modeling decorating wheel 7 inch head
- 6. Boxwood modeling tool 6 inch length
- 7. Boxwood wire modeling tool -8 inches
- 8. Fettling knife
- 9. Flexible scraper ~ 2" x 4" half moon
- 10. Finishing rubber 2-1/8" x 3-1/2"
- 11. Metal dividers or compass
- 12. Metal or wooden calipers

IV. Decorating

A. Methods of decorating

- 1. Incising
- 2. Sgraffito
- 3. Carving
- 4. Embossing
- 5. Stamping
- 6. Texturing
- 7. Stenciling
- 8. Wax resist
- 9. Mishima
- 10. Satsuma
- 11. Slip painting
- 12. Slip trailing



- 13. Spraying
- 14. Terra Sigillata
- 15. Impressing
- 16. Applique
- 17. Sprigging
- 18. Excising
- 19. Slips and engobes
- 20. Inlay
- 21. Underglazes
- 22. Underglaze crayons
- 23. Rubber resist
- 24. Semi-matt
- 25. Overglazes
- 26. Matt

B. Materials for decorating

- 1. Tools
 - a. decorating wheel
 - b. slip trailers
 - c. plastic bags
 - d. large round or flat brushes for glaze and slip application
 - e. bamboo brushes, large and medium for wax resist and other use
 - f. small pointed brushes for detail
 - g. flexible scraper, half-moon
 shape
 - h. Steel plaster and clay modeling tools for sgraffito, blending, incising, scraping, etc.
 - i. elephant ear sponge
 - j. professional boxwood tool
 - k. Steel loop modeling tool
 - 1. fettling knife
 - m. pencils and india ink
 - n. plastic water container
- 2. Consumable materials
 - a. slip
 - b. plaster of paris
 - c. engobes



- d. stencil paper
- e. wax resist
- f. rubber resist
- g. underglaze
- h. overglaze
- i. gloss
- j. semi-matt
- k. matt

V. Glazing

A. Methods of glazing

- 1. dipping
- 2. pouring
- 3. brushing
- 4. spraying

B. Equipment and tools

- 1. glazing bowl
- 2. pitcher
- 3. two sticks
- 4. mesh metal sieve
- 5. metal glaze tong
- 6. glaze brushes soft hair, flat - 1/2" to 1"
- ceramic spray booth with exhaust fan, stand, and filter
- sprayer outfit with guncompressor
- 9. 120 mesh sieve

C. Types of glazes

- low-temperature glazes
 - a. alkaline glazes
 - b. lead glazes
- 2. Middle-temperature glazes
 - a. bristol glazes
- 3. high-fired glazes
 - a. stoneware glazes
 - b. porcelain glazes



D. Glaze textures

- 1. Transparent
- 2. Opaque
- 3. Gloss
- 4. Matt

E. Glaze defects

- Defects due to clay body
 - a. pinholes and bubbles
 - b. sandpaper surface
 - c. blistering
- 2. Defects due to application
 - a. blisters and pinholes
 - b. scaly surface
 - c. running
 - d. chipping
 - e. dryness
 - f. cracking
 - g. bubbles and blisters
- 3. Defects in glaze composition
 - a. shivering
 - b. crazing
 - c. dull surface on gloss glaze
 - d. crawling
 - e. pinholes and bubbles

VI. Firing Ceramic Ware

A. Preparing ware for firing

- 1. Drying
 - a. storing (drying cabinet)
 - b. bone dry

B. Procedure for firing kiln

- 1. Familiarizing with kiln manual
- 2. Applying kiln wash
- 3. Stacking kiln for bisque firing
- 4. Stacking kiln for glaze firing



- Measuring and managing kiln temperature
 - a. cones
 - b. pyrometer
- 6. Following firing schedule
- 7. Following cooling schedule
- 8. Removing ware from kiln

C. Defects due to improper firing

- 1. Shattering
- 2. Cracking
- Warping
- 4. Blistering
- 5. Pinholing
- 6. Glaze crawling
- 7. Melting
- 8. Crazing



EVALUATION

It is essential to establish a criteria for evaluating the progress of the student in an art experience. Evaluation in ceramic art cannot be rigid to the extend that it will inhibit creative expression. Creativity is unique and personal.

The product itself cannot be evaluated without taking into consideration the process the student experienced from inception to completion. In addition, evaluation must include evidence of the growth of the individual in relation to his attitude, interest, ability to complete a project, how well he can use his past experience toward problem solving, respect for his own ability and the rights of others.

Evaluation is of vital importance to the student's development. It helps to determine the growth of the student so that the teacher can further motivate and guide the student toward his fullest self-development, creativity, and aesthetic growth.

The criteria established for evaluation will vary due to individual differences among students and teachers. Each teacher must determine his own goals and formulate standards



for evaluation always keeping in mind that evaluation must be positive as well as constructive.

The following are some suggestions in setting up a criteria for evaluation:

- 1. Has the student learned to evaluate his own pottery as well as that of others with consideration to the sensuous quality of the clay, form, and content?
- 2. Has the student designed the entire object with an awareness of space, form, movement, order, relationship of parts to the whole, and good color organization?
- 3. Has the student expressed his ideas creatively in the media in an original and meaningful way?
- 4. Has the student developed a sensitivity to the material?
- 5. Does the student express his ideas and individuality in clay?
- 6. Has the student become aware that texture results from an interaction of the clay and the tools?
- 7. Is the student aware of the difference between tactile and visual textures?
- 8. Has the student become sensitive to the expressive qualities of the different clay materials and tools?
- 9. Is the student aware that improper use of material and tools results in poorly constructed forms?
- 10. Is the student aware that variety can add interest to forms but too much can destroy it?
- 11. Does the student react empathically to clay in terms of three-dimensional forms?
- 12. Is the student familiar with good ceramic art of the past and present?



- 13. Is the student able to identify from contemporary ceramists the ways in which the craftsmen manipulate their tools and materials?
 - 14. Has the student developed good work habits?
- 15. Has the student's behavior outside the art class improved as a result of his art experience?
- 16. Has the student developed a respect for his personal ability?
- 17. Has the student developed a respect for the rights of others?
- 18. Has the student acquired increased efficiency in handling materials and tools?
- 19. Has the student developed the ability to carry the project through to completion?
- 20. Has the student learned the firing process and how to use it to its fullest advantage?
- 21. Has the student developed good craftsmanship and yet retained the natural qualities of the clay?
- 22. Has the student learned to form pottery correctly so it does not warp or crack?
- 23. Is the product suited for the purpose for which it was made?
- 24. Does it incorporate the principles of good ceramic design?
- 25. Is the product the one best suited for work in clay?
 - 26. Is the product well constructed?
- 27. Does the product indicate individuality and expersive quality?
 - 28. Does the glaze fit the form?
- 29. Has the student improved in attitude, interests, and development of technical skills?



RESOURCES FOR PUPILS

Suggested Texts

- Kenny, John B, <u>Ceramic Design</u>. Philadelphia: Chilton, 1963.
- Long, Lois Culver, <u>Ceramic Decoration</u>. Indianapolis: The American Art Clay Company, 1958.

Suggested References

General

- Ball, F. Carlton and Lovoos, Janice, <u>Making Pottery</u> Without a Wheel. New York: Rheinhold, 1965.
- Hofsted, Jolyon, <u>Step-by-Step Coramics</u>. New York: Golden Press, 1967.
- Kenny, John B., <u>Ceramic Sculpture</u>. New York: Greenberg, 1953.
- ______, The Complete Book of Pottery Making.
 Philadelphia: Chilton, 1949.
- Nelson, Glenn C., Ceramics, A Potter's Handbook. New York:
 Holt, Rinehart, Winston, 1960.
- Norton, F. H., Ceramics for the Artist Potter. Massachusetts: Addison-Wesley, 1956.
- Sanders, Herbert H., Pottery and Ceramic Sculpture. California: Lane, 1964.
- Suspensky, Thomas G., Ceramic Art in the School Program.

 Massachusetts: Davis, 1968.

Prehistoric

Cles-Reden, The Realm of the Great Goddess. New Jersey: Prentice-Hall, 1962.



16

- Graziosi, Paolo, <u>Paleolithic Art</u>. New York: McGraw Hill, 1960.
- Huyghe, Rene, Larousse Encyclopedia of Prehistoric and Ancient Art. New York: Prometheus Press, 1962.
- Leroi, Gourhan André, <u>Treasures of Prehistoric Art.</u> New York: Harry N. Abrams, Inc., 1967.

Egyptian

- Raphael, Max, Prehistoric Pottery and Civilizations in Egypt. New York: Phantom, Inc., 1947.
- Savage, George, Pottery Through the Ages. New York: Pelican, 1954.
- Walters, H. B., <u>History of Ancient Pottery</u>. London: Murray, 1905.
- Woldering, Irmgard, The Art of Egypt. New York: Greystone, Press, 1963.

Ancient Near East

- Childs, V. Gordon, New Light on the Most Ancient East.

 London: Rontledge and Kegan Paul, Ltd., 1935.
- Lloyd, Seton. The Art of the Ancient Near East. New York: Praeger, 1961.
- Pope, Arthur U., A Survey of Persian Art. London: Oxford University, 1964.
- Wilkinson, Charles K., <u>Iranian Ceramics</u>. New York: Harry N. Abrams, Inc., 1963.
- Asia: (India, China, Korea, and Japan)
- Auboyer, Jeannine and Goepper, Roger, The Oriental World.

 New York: McGraw-Hill Book Company, 1967.



- Fourcade, Francois, Art Treasures of the Peking Museum.

 New York: Harry N. Abrams, Inc., 1970.
- Lee, Sherman E., A History of Far Eastern Art. New Jersey:
 Prentice-Hall, Inc., 1964.
- Munsterberg, Hugo, Art of the Far East. New York: Harry N. Abrams, Inc., 1968.
- Rhodes, Daniel, <u>Tamba Pottery</u>. California: Kodansha International, Ltd., 1970.
- Sanders, Herbert H., The World of Japanese Ceramics.

 California: Kodansha International, Ltd., 1967.
- Savage, George, Pottery Through the Ages. New York:
 Pelican, 1954.
- Classical: (Crete, Greece, Etrusca, and Rome)
- Arias, P. E., Greek Vase Painting. New York: Harry N. Abrams, Inc., 1961.
- Marinatos, S. Crete and Mycenae. New York: Harry N. Abrams, Inc., 1960.
- Richter, G. M. A., <u>Attic Red-Figured Vases</u>. New Haven: Yale Press, 1958.
- Savage, George, Pottery Through the Ages. New York: Pelican, 1954.
- Walters, H. B., <u>History of Ancient Pottery</u>. London: J. Murray, 1905.
- Wilson, Robert, <u>Art Concept in Clay</u>. Coral Gables: University of Miami Press, 1957.
- Byzantium: (Rome)
- Anthony, Edgar W., A History of Mosaics. Boston: Sargent, 1935.

Grabar, André, Byzantium. London: Thames and Hudson, 1966.

Islam

Lane, Arthur, Early Islamic Pottery. London: Faber, 1939.

, Later Islamic Pottery, London: Faber, 1957.

Savage, George, Pottery Through the Ages. New York: Pelican, 1954.

Pre-Columbian

- Anton, Ferdinand and Dockstader, Frederick J., Pre-Columbian
 Art and Later Indian Tribal Arts. New York:
 Harry N. Abrams, Inc., 1968.
- Bernal, Ignacio, 3000 Years of Art and Life in Mexico. New York: Harry N. Abrams, Inc., 1968.
- Lehmann, Henri, <u>Pre-Columbian Ceramics</u>. New York: Viking, 1962.
- Mason, J. Alden, <u>The Ancient Civilizations of Peru.</u> Baltimore: Penguin, 1957.
- Westheim, Paul, The Sculpture of Ancient Mexico. New York: Doubleday and Company, Inc., 1963.

Renaissance in Europe

- Goldscheider, Ludwig, <u>Michelangelo's Models in Wax and</u>
 <u>Clay</u>. London: Phaidon, 1962.
- Honey, William B. Wedgewood Ware. London: Faber, 1949.
- Liverani, Giuseppe, <u>Five Centuries of Italian Majolica</u>. New York: McGraw Hill, 1960.
- Charleston, Robert J., <u>World Ceramics</u>. New York: McGraw Hill, 1968.



SUGGESTED PERIODICALS FOR PUPILS

Ceramics Monthly
Box 4548
Columbus, Ohio 43212

Craft Horizons 29 West 53rd St. New York, N.Y. 10019

School Arts
50 Portland St.
Worcester, Mass. 01608

Design Quarterly 1710 Lyndale Avc. Minneapolis 3, Minn.

SUGGESTED PLACES TO VISIT

Grove House School of Art 3496 Main Highway Coconut Grove, Fla. 33133

Sandpiper 2924 Florida Ave. Coconut Grove, Fla. 33133

Village Corner Gallery 1136 South Dixie Highway Coral Gables, Fla.

Lowe Art Museum 1301 Miller Drive Coral Gables, Florida

Miami Art Center 7867 North Kendall Drive Kendall, Florida



SUGGESTED PLACES TO VISIT -- Continued

Ceramic League of Miami 7867 North Kendall Drive Kendall, Florida

Miami Museum of Modern Art 381 N. E. 20th Street Miami, Florida

Grove House Gallery 3496 Main Highway Coconut Grove, Florida

Muscum of Science-Planetarium 3280 South Miami Avenue Miami, Florida

Fairchild Tropical Garden 10901 Old Cutler Road Coral Gables, Florida

Fantastic Gardens 9550 S.W. 67th Avenue Miami, Florida

Miami Seaquarium Rickenbacker Causeway Virginia Key, Florida

Crandon Park Zoo Key Biscayne, Florida

Scholastic Art Awards Exhibition Burdine's Department Store 22 E. Flagler Street Miami, Florida

Miami Studio Shop 2363 W. Flagler Street Miami, Florida

Bass Museum of Art 2100 Collins Avenue Miami Beach, Florida



SUGGESTED PLACES TO VISIT -- Continued

Japanese Gardens MacArthur Causeway Miami, Florida

Vizcaya Art Museum 3251 South Miami Avenue Miami, Florida

BIBLIOGRAPHY

- Ball, F. Carlton and Lovoos, Janice, <u>Making Pottery</u>
 Without a Wheel. New York: Rheinhold, 1965.
- Charleston, Robert J., World Ceramics. New York: McGraw Hill, 1968.
- Hofsted, Jolyon, Step-by-Step Ceramics. New York: Golden Press, 1967.
- Kenny, John B., Ceramic Design. Philadelphia: Chilton, 1963.
- , Ceramic Sculpture. New York: Greenberg, 1953.
- phia: Chilton, 1949.
- Landis, Mildred M., Meaningful Art Education. Peoria: Chas. A. Bennett Co., Inc., 1951.
- Leach, Bernard, A Potter's Handbook. Transatlantic Arts, 1951.
- A Potter in Japan. London: Faber and Faber,
- Long, Lois Culver, <u>Ceramic Decoration</u>. Indianapolis:
 American Art Clay Co., 1958.
- Nelson, Glenn C., <u>Ceramics, A Potter's Handbook</u>. New York: Holt, Rinehart, Winston, 1960.
- Norton, F. H., Ceramics for the Artist Potter. Massachusetts: Addison-Wesley, 1956.
- Parmelee, Cullen W., <u>Ceramic Glazes</u>. Chicago: Industrial Publications, 1951.
- Rhodes, Daniel, Clay and Glazes for the Potter. Philadelphia: Chilton, 1957.



- , Stoneware and Porcelain. Philadelphia: Chilton,
- , <u>Tamba Pottery</u>. California: Kodansha International, Ltd., 1970.
- Riegger, Hal, Raku Art and Technique. New York: Van Nostrand Rheinhold Company, 1970.
- Sanders, Herbert H., Pottery and Ceramic Sculpture.
 California: Lane, 1964.
- , The World of Japanese Ceramics. California:
 Kodansha International, Ltd., 1967.
- Suspensky, Thomas G., <u>Ceramic Art in the School Program</u>.

 Massachusetts: Davis, 1968.
- Wildenhain, Marguerite, Pottery Form and Expression.
 New York: Rheinhold, 1959.
- Wilson, Robert, Art Concept in Clay. Coral Gables: University of Miami Press, 1957.



APPENDIX



SUGGESTED MEDIA RESOURCES FOR PUPILS AND TEACHERS

07632

Film Strips

American Crafts Council Research and Education Dept. 29 West 53rd Street New York, N.Y. 10019

Scholastic Film Strips 906 Sylvan Avenue

Englewood Cliffs, N.J.

Contemporary Ceramics U.S.A., 1966

Forms from the Earth: 1000 Years of Pottery in America 1962

Art by Talented Teen-Agers - 1970: Sculpture and other Three-Dimensional Art

Art by Takented Teen-Agers - 1969: Sculpture and other Three-Dimensional Art

Art by Talented Teen-Agers - 1968: Sculpture and other Three-Dimensional Art

Art by Talented Teen-Agers - 1967: Sculpture and other Three-Dimensional Art

Art by Talented Teen-Agers - 1961-1966: Sculpture and other Three-Dimensional Art

Collected Works of Teen-Age Art - Sculpture and other Three-Dimensional Art



Slides

American Crafts Council Research and Education Dept. 29 West 53rd Street New York, N.Y. 10019

- F6 Three Ceramists:
 Gronborg/Leedy/
 Williams, 1969 Ceramic sculpture from
 one-man exhibitions at
 M.C.C.
- C14 Young Americans, 1969 Winning entries in all
 craft media from the
 national competition of
 this title sponsored by
 the American Crafts
 Council
 - An exhibition which sought to question the nature of objects.

 Covers work by 42 craftsmen in various media.
 - C7 Ceramics of Maija Grotell,

 1968 Pottery by the
 head of the Department of
 Ceramics at Cranbrook
 Academy of Art from 19381966.
 - B14 Craftsmen U.S.A. *66 National Merit Awards in
 a competition sponsored
 by the American Crafts
 Council; covers all
 craft media.
 - Bl The American Craftsmen, 1964 - 30 craftsmen and their work in clay, metal, wood, and textiles.



°Slides

- Al4 Forms from the Earth,
 1000 Years of Pottery
 in America, 1962 A
 summary view of pottery
 in America up to 1961.
- Al3 Young Americans, 1962 Winning entries in all craft media from the national competition of this title sponsored by the American Crafts Council.
- A6a Katherine Choy, 1961 Pottery from a retrospective exhibition at
 M.C.C.
- Fl1 General Ceramics, 1960 Functional and sculptured ceramics by contemporary American
 craftsmen.
 - D5 Contemporary Ceramics
 U.S.A., 1966 Works by
 77 American Craftsmen.
 - D6 General Ceramics, 1963 Work of the early 1960's by American craftsmen.
 - F4 Objects U.S.A., 1969 A selection of work in all media from the Johnson Collection of Contemporary Crafts.
- B12 Folk Art of North India,

 1966 Ceramics, embroidery,
 applique, and jewelry from
 North India.



Slides

- clo <u>Salt Glaze Kiln: building/firing, 1969</u> Construction and firing at the Byron Temple Studio; Script gives additional information on materials and techniques.
 - B9 The Raku Process, 1969 Paul Soldner photographed
 as he fires pottery by
 the raku process.

Prothmann Associates, Inc. 2795 Milburn Avenue Baldwin, New York 11510 Contemporary Ceramics - a survey 1946-1964 from prizewinning entries in National and International Exhibits at the Everson Museum of Art, Syracuse, New York.

International Ceramic Exhibitions, 1958.

Portfolios

American Art Clay Co., Inc. 4717 West 16th Street Indianapolis, Indiana 46227 Throwing a Cylinder

Professional Publications, Inc. Ceramic Art in America Box 4548 Columbus, Ohio 43212



RESOURCES FOR TEACHERS

Films

Bailey Films, Inc. 6509 Longpre Avenue Hollywood, California 90028 Clay Craft

Creative Ceramics:

Creating with Clay
Using the Banding Wheel

Potter's Wheel as a Tool

Beginning Wheel Techniques

Basic Wheel Forms

The Nature of Clay

Earth, Fingers, and Fire

Coil, Slabs, and Space

Combining Clay Forms

The Student as Artist with Clay

Audio-Visual Center Indiana University Bloomington, Indiana

Art Institute of Chicago

Chicago, Illinois

Craftsmanship in Clay:

Simple Slab Methods

Throwing

Glaze Application

Kiln Stacking and Firing

Decoration

Mold Making



RESOURCE PEOPLE Ceramic League of Miami

Virginia L. Davis

Edmund O. Weyhe

Chili Emerman

Barbara Garrett

Geri Popenoe

Marilyn Sherwood

Lynn Glatstein

Natalie B. Linder

Janel Lund

Juanita May

Genevieve McCrea

Marie Furman

Mary Grabill

Elinor Jensen

Inga Lukat

Chris Rosean

Richard Bugdal

Jean Guthrie

Josephine Kamp

Carol King



31

Evelyn C. Smiley

Fran Williams

Irene Batt

Dorothy Bosco

Marcy Dunn

Nettie Wintie

Edythe Powell

Virginia C. Stemples

Mary J. Acosta

Edna De Line

Jacquelyn Ferguson

Henry Gordon

Lillian H. Stoff

Terry Weinberger

Joy Lindskold

Davi Justi

Janet Festinger



PERIODICALS AND PROFESSIONAL JOURNALS FOR TEACHERS

Ceramic Age 9 Chester Building Cleveland 14, Ohio

Ceramic Industry 5 S. Wabash Avenue Chicago 3, Illinois

Ceramic Data Book Industrial Publications 5 S. Wabash Avenue Chicago 3, Illinois

Ceramics Monthly Box 4548 Columbus, Ohio

Journal of the American Ceramic Society Columbus, Ohio

Journal of the National Council on Education for the Ceramic Arts Room 132 Fine Arts Building University of Illinois Champaign, Illinois

Journal of the National Art Education Association 1201 Sixteenth Street N.W., Washington, D.C.

Craft Horizons 29 West 53rd Street New York, N.Y.

School Arts 50 Portland Street Worcester, Massachusetts



Design Quarterly 1710 Lyndale Avenue Minneapolis 3, Minnesota

SUPPLIERS:

Clays, Kilns, and Equipment

Newton Pottery Supply Co. Newton, Massachusetts

Norman Ceramics Co., Inc. 225 Mamaroneck Avenue Mamaroneck, N.Y.

Craftools, Inc. 401 Broadway New York, N.Y.

Stewart Clay Co., Inc. 133 Mulberry Street New York, N.Y.

Cedar Heights Clay Co. 50 Portsmouth Road Oak Hill, Ohio

Harrop Ceramic Service 347 East 5th Avenue Columbus, Ohio

W. H. Fairchild 712 Centre Street Freeland, Pennsylvania

O. Hommel Co. 209 Fourth Avenue Pittsburgh, Pennsylvania

Kentucky-Tennessee Clay Co. Mayfield, Ohio



U.S. Stoneware Co. Akron, Ohio

A. D. Alpine, Inc. 11837 Teale Street Culver City, California

Advanced Kiln Co. 2543 Whittier Boulevard Los Angeles, California

Garden City Clay Co. Redwood City, California

Western Ceramic Supply Co. 1601 Howard Street San Francisco, California

Western Stoneware Co. Monmouth, Illinois

American Art Clay Co. 4717 West 16th Street Indianapolis, Indiana

Denver Fire Clay Co. 3033 Black Street Denver, Colorado

Van Howe Co. 1185 South Cherokee Avenue Denver, Colorado

Miami Studio Shop 2363 W. Flagler Street Miami, Florida



PROFESSIONAL SCHOOLS, UNIVERSITIES, AND WORKSHOPS SPECIALIZING IN POTTERY

Troy State College Troy, Alabama

Northern Arizona University Flagstaff, Arizona

Arkansas Arts Center School of Art and Drama MacArthur Park Little Rock, Arkansas

University of California Department of Design 234 Wurster Hall Berkeley, California

University of California Davis, California

Mills College Oakland, California

San Jose State College San Jose, California

California College of Arts & Crafts 5212 Broadway at College Avenue Oakland, California

Pond Farm Pottery Gureneville, California

University of Colorado School of Art Denver, Colorado

The Corcoran School of Art 17th St. at New York Ave., N.W. Washington, D.C.



Georgia State College 33 Gilmer Street, S.E. Atlanta, Georgia

School of the Art Institute of Chicago Michigan at Adams Chicago, Illinois

University of Illinois College of Fine & Applied Arts 143 Fine Arts Building Urbana, Illinois

Indiana University Fine Arts Building Bloomington, Indiana

Indiana State University Terre Haute, Indiana

Wichita Art Association 9112 East Central Wichita, Kansas

Louisville Art Center School 2111 South First Street Louisville, Kentucky

Newcomb College Art Department of Tulane University New Orleans, Louisiana

Haystack Mountain School of Crafts Deer Isle, Maine

Boston Museum School 230 Fenway Boston, Massachusetts

Plymouth Pottery 42 Summer Street Plymouth, Massachusetts



Cranbrook Academy of Art 55 Lone Pine Road Bloomfield Hills, Michigan

Rochester Art Center 320 East Center Rochester, Minnesota

University of Missouri Department of Art Columbia, Missouri

University of Montana Art Department Missoula, Montana

University of New Hampshire Department of the Arts Durham, New Hampshire

Newark Museum of Art 43-49 Washington Street Newark, New Jersey

State University of New York College of Ceramics Alfred University Alfred, New York

Brooklyn Museum Art School Eastern Parkway Brooklyn, New York

Craft Students League 840 Eighth Avenue New York, N.Y.

Greenwich House Pottery 16 Jones Street New York, N.Y.

The New School for Social Research 66 West 12th Street
New York, N. Y.



Clay Art Center 40 Beech Street Port Chester, L.I., New York

School for American Craftsmen Rochester Institute of Technology 65 Plymouth Avenue, South Rochester, New York

Syracuse University School of Art 309 University Place Syracuse, New York

Penland School of Crafts Penland, North Carolina

Cleveland Institute of Art 11141 East Boulevard Cleveland, Ohio

Ohio University Athens, Ohio

Millersville State College Millersville, Pennsylvania

Rhode Island School of Design Providence, Rhode Island

Museum School of Art of Houston 1001 Bissonnett Houston, Texas

Stout State University Menomonie, Wisconsin

Wisconsin State University River Falls, Wisconsin



SUGGESTED REFERENCES FOR TEACHERS

- Adams, Leonhard, <u>Primitive Art</u>. London: Penguin Books, Ltd., 1940.
- Anton, Ferdinand and Dockstader, Frederick J., <u>Pre-Columbian</u>
 Art and Later Indian Tribal Arts. New York:
 Harry N. Abrams, Inc., 1968.
- Arias, P. E., Greek Vase Painting. New York: Harry N. Abrams, Inc., 1961.
- Auboyer, Jeannine and Goepper, Roger, The Oriental World.

 New York: Van Nostrand Rheinhold Company, 1970.
- Ball, F. Carlton and Lovoos, Janice, Making Pottery Without a Wheel. New York: Rheinhold, 1965.
- Bager, Bertel, <u>Nature as Designer</u>. New York: Rheinhold Publishing Corporation, 1966.
- Bernal, Ignacio, 3,000 Years of Art and Life in Mexico. New York: Harry N. Abrams, Inc., 1968.
- Childs, V. Gordon, New Light on the Most Ancient East.

 London: Rontledge and Kegan Paul, Ltd., 1935.
- Cles-Reden, The Realm of the Great Goddess. New Jersey: Prentice-Hall, 1962.
- Goldscheider, Ludwig, Michelangelo's Models in Wax and Clay.
 London: Phaidon, 1962.
- Grabar, Andre, Byzantium. London: Thames and Hudson, 1966.
- Graziosi, Paolo, <u>Paleolethic Art</u>. New York: McGraw Hill, 1960.
- Grigson, G., Art Treasures of the British Museum. New York: Harry N. Abrams, Inc., 1957.
- Hetherington, A. L., Chinese Ceramic Glazes. Los Angeles: Commonwealth Press, 1948.



- Hobson, R. L., Chinese Potterv and Porcelain. London: Cassell, 1915.
- · Hofsted, Jolyon, <u>Step-by-Step Ceramics</u>. New York: Golden Press, 1967.
 - Honey, William B., The Ceramic Art of China. London: Faber, 1945.
 - _____, European Ceramic Art. London: Faber, 1949.
 - Huyghe, Rene, Larousse Encyclopedia of Prehistoric and Ancient Art. New York: Prometheus Press, 1962.
 - Kelemen, P. Medieval American Art. New York: Macmillan, 1943.
 - Kenny, John B., <u>Ceramic Design</u>. Philadelphia: Chilton, 1963.
 - , Ceramic Sculpture. New York: Greenberg, 1953.
 - phia: Chilton, 1949.
 - Lane, Arthur, Early Islamic Pottery. London: Faber, 1939.
 - Leach, Bernard, A Potter's Handbook. Transatlantic Arts, 1951.
 - , A Potter In Japan. London: Faber and Faber,
 - Lee, Sherman E., A History of Far Eastern Art. New Jersey: Prentice-Hall, Inc., 1964.
 - Lehmann, Henri, <u>Pre-Columbian Ceramics</u>. New York: Viking, 1962.
 - Leroi, Gourhan, Andre, <u>Treasures of Prehistoric Art.</u> New York: Harry N. Abrams, Inc., 1967.
 - Liverani, Giuseppe, Five Centuries of Italian Majolica. New York: McGraw Hill, 1960.



- Lloyd, Seton, The Art of the Ancient Near East. New York: Praeger, 1961.
- Long, Lois Culver, <u>Ceramic Decoration</u>. Indianapolis: American Art Clay Co., 1958.
- Lothrop, S., Pre-Colombian Art. New York: Phaidon, 1958.
- Marinatos, S., Crete and Mycenae. New York: Harry N. Abrams, Inc., 1960,
- Munsterberg, Hugo, The Ceramic Art of Japan. Rutland, Vt.: Tuttle, 1964.
- Nelson, Glenn C., <u>Ceramics, A Potter's Handbook</u>. New York: Holt, Rinehart, Winston, 1960.
- Norton, F. H., <u>Ceramics for the Artist Potter</u>. <u>Massachusetts</u>: Addison-Wesley, 1956.
- Parmelee, Cullen W., <u>Ceramic Glazes</u>. Chicago: Industrial Publications, 1951.
- Pope, Arthur U., A Survey of Persian Art. London: Oxford University, 1964.
- Raphael, Max, Prehistoric Pottery and Civilization in Egypt. New York: Phanton, Inc., 1947.
- Rhodes, Daniel, Clay and Glazes for the Potter. Philadelphia: Chilton, 1957.
- , Stoneware and Porcelain. Philadelphia: Chilton, 1959.
- ______, <u>Tamba Pottery</u>. California: Kodansha International, Ltd., 1970.
- Richter, G. M. A., <u>Attic Red-Figured Vases</u>. New Haven: Yale Press, 1958.
- Riegger, Hal, Raku Arti and Technique. New York: Van Nostrand Rheimhold Company, 1970.



- Sanders, Herbert H., <u>Pottery and Ceramic Sculpture</u>. California: Lane, 1964.
- , The World of Japanese Ceramics. California: Kodansha International, Ltd., 1967.
- Savage, George, <u>Ceramics for the Collector</u>. New York: Macmillan, 1949.
- , Pottery Through the Ages. New York: Pelican, 1954.
- Suspensky, Thomas G., Ceramic Art in the School Program.

 Massachusetts: Davis, 1968.
- Walters, H. B., <u>History of Ancient Pottery</u>. London: J. Murray, 1905.
- Westheim, Paul, The Sculpture of Ancient Mexico. New York:
 Doubleday and Company, Inc., 1962.
- Wildenhain, Marguerite, Pottery Form and Expression.

 New York: Rheinhold, 1959.
- Wilkinson, Charles K., <u>Iranian Ceramics</u>. New York: Harry N. Abrams, Inc., 1963.
- Wilson, Robert, Art Concept in Clay. Coral Gables: University of Miami, 1957.
- Woldering, Irmgard, <u>The Art of Egypt</u>. New York: Greystone Press, 1963.

