THE DEVELOPMENT AND UTILIZATION OF TRANSPARENCIES FOR SECONDARY SCHOOL ART INSTRUCTION

har

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Approved by:

lajor Professo:

ACTOLOWE PROGRAMME

T wisk to admowledge my appreciation to Dr. Floyd. Price, Dr. Fred Teague, Professor Elmer Tomach, and my wife Sheila for their patience and assistance in writing this report.

TABLE OF CONTENTS

CHAPI	ZB PAG:	ā
I.	INTRODUCTION 1	
	Purpose 1	
	Questions 1	
	Procedure	
	Definition of Terms 2	
	Visual Nedia 2	
	Secondary School Art 3	
	Handmade Transparencies 3	
II.	REVIEW OF LITERATURE	
	What Has Been Developed 5	
	New Ideas To Be Used For Transparencies 6	
	What Types of Transparencies Should Be Made 8	
	Inexpensive Production 10	
	Where Should The Transparencies Be Produced 10	
III.,	DEVELOPMENT OF THE TRANSPARENCIES 12	
	Ceramics	
	Ceramic Tools	
	Correct and Incorrect Shapes 12	
	Special Details of Pottery 15	
	Methods of Glazing 15	
	Methods of Stacking Greenware 15	
	Firing the Kiln 18	

																				PAG
L	gure.	, D.	"E.W	ls,																26
	Basi	c !	let	hoo	l c	ſ	Dr	aw	in	8	th	е	Ma	l e	A	du	1			26
	asi	c l	(et	hoo	l c	ſ	Dr	aw	in	s	th	е	Fe	ma	1 e	A	du	1t		26
	asi	c l	lea	suj	en	er	ts	a	nd	P	la	ne	s	of	t	he	F	ac	е	26
ì	ore	sho	rt	enj	ne	t	he	P	ig	ur	е									26
	he	Har	ıd.																	32
	he																			32
	spe																			32
	ne																			32
	qua																			32
	Wo .																			36
	hre																			36
	win																		Ī	36
	he i																			41
	Su																			41
	Si																			41
	Su																		•	41
	070																		•	41
	Sha																		٠	41
	Der																			41
	For																			-
16	S12																			49
																			٠	49
	ne			•	٠			•	•	•	•		•	•				•	٠	49
	ane			•		•						•						٠		49

Colai an														PAC
	Counc	rel'	11	on.										49
	Texti	re												50
	Light	. ai	nd		164	de								58
	Color .													56
	Color	: W)	10	el										56
	Cool	Co:	.01	rs										56
	Varm	Co]	Lo:	rs										62
	Color	Te	eri	18										62
IV. SU	WARY .													65
BIBLIOGR.	APHY .													67
1 DEPENDENT														

LIST OF ILLUSTRATIONS

TLAT	rič			PAGI
1.	Carante Tools		,	13
3.	Good and Bad Shapes for Pottery			14
Ŧ.	Special Parts of a Pot			16
4.	Rethods of Glazing Pottery			17
5.	Method of Stacking Greenware in a Kiln .			19
-6:	Materials for Glazedware Stacking			20
7.	Cone 05 Firing at Normal Temperature			21
в.	Cone 05 Firing at 1850°F			22
9.	Cone 05 Firing at 1900°F			23
10.	Cone 05 Firing Over 1900°F			24
11.	Varied Range of Cone Firing Temperatures			25
12.	Male Adult			27
13.	Female Adult			28
14.	Basic Measurements and Planes of the Face			29
15.	Foreshortening the Body			30
16.	Foreshortening the Arms			31
17.	The Hand			33
18.	The Foot			34
19.	One Point Perspective			35
20.	Square Grid Perspective			37
21.	Two Point Perspective (Angular)			38
				39
= 3.	Three Point Perspective			40

-	1																			PAGE	
24.	Deasting Th	re	1	ŭ,	100	103	.01	1.												42	
25.	Surface .						. ,								. ,					43	
No.	Size																			44	
87.	Surface Lin	ies																		45	
28.	Overlapping																			46	
29.	Shading																			42	
30.	Density																			48	
31.	Foreshorter	in	g																	50	
32.	Combination	. 0	ſ	Se.	ve:	n.	Ме	th	o d	s										51.	
33.	Design (Six	E	1 e	m er	nt	s)														52	
34.	Line											i	·							53	
35.	Color							Ì			i	i	Ċ						•	54	
35.	Shape	i	į											•	•	٠	٠	•	•		
32.	Composition														٠	•	•	•	*	55 57	
38.	Texture								i							•		٠	٠	58	
39.	Light and S														•			٠	•		
40.	Color Wheel											•	•	٠		•	•		•	59	
41.	Cool Colors								•	•	•		•		٠	•	٠	٠	٠	60	
42.	Warm Colors					٠		٠			•	٠	٠	٠	٠	•	٠		•	61	
43.	Color Terms				•	•	•	•	•	•	•	•	٠	•	•	•	٠	*	٠	63	
	COLOI TERMS	•	•			٠	٠	۰	*	٠	٠	٠	•	٠	٠	٠	٠	•		64	

I TROUGCTION

Purchasi

The purpose of this person is to develor one present
that then recorded pulments for use in art classes in
the secondary schools. At researt, there is only a limited
scopply of pransparancies which in turn limits the art teacher's
use of one overhead projector.

The materials developed as a part of this report should expand the capabilities of using transparencies in secondary art teaching. The areas which appear to need most consideration are ceramics, design, color, figure drawing, and perspective drawing.

Questions

Some of the questions which must be answered before development may begin are:

- What types of transparencies have been developed for these areas of concentration?
- What new ideas may be transformed into transparencies for classroom use?
- What types of transparencies should be produced; overlays, colored, or single black and white film?
- 4. What materials and what methods should be used to keep the production as inexpensive as possible?

6. How would the visual media be used in the classroom?

Loneiure

The writer first found what had been developed in this particular area by reviewing catalog publications and by consulting with companies which produce transparencies. Secondary art curricula were reviewed in order to compile a listing of visual media needed in secondary school art instruction. Freliminary sketches of each listed item were drawn. These sketches were discussed with media specialists, university art professors, and secondary art teachers and corrections were made on the basis of these discussions. Salected sketches were rade into transparencies and used in a secondary art class. Minor revisions were made on the basis of experience gained in the application of the materials in actual class-room art instruction.

Definition of Terms

Yisual Media. Although the term may be used to identify many types of Visual materials such as slides, films, pictures, and television, it is used to represent transparencies in this materials.

le Sce appendix.

Secondary second Art. Data personal art instruc-

Handwage Transportances. Those Walk are made entirely by hand and do not require the use of printing equipment.

The oranged projector has become wildly excepted as a main classroom teachile tool, not only in public schools, but in many other types of tool many programs. Many instructors have asked that their institutions provide overhead projectors for use in the classroom.

The increasing interest in the use of transparencies

PAG Caused many commercial organizations, including book

publishers, to begin producing transparencies,

Numerous studies have been conducted to determine how much time is saved by using transparencies and the quality of learning that results from their use, ne such extensive exportant was conducted at the second of the such extensive exportant was conducted at the compare results in engineer interest the objective was to compare results in engineer interest the objective the chall thought was careful use of the chall thought and others with projected transparencies. Consciption of without was careful to experient, conducted by C. W. Chance, was supported to the construction of the

Teachers claming to use transparencies should capitalize on the flexibility of their use as well as the floxibility of the saterials theselves, the teacher of the saterials the selves, the teacher of the transparency of the teacher of the interest in the teacher directly with these man the interest of the teacher directly with these man the interest of the teacher teacher of the teacher teacher of the teacher teacher of the teacher teach to be replaced for a time, general capital capital capitals and the teacher teach to be replaced for a time.

the consequence of the overent project of the condense of the condense of the project of the pro

As her been proven by testing, transparencies are "one of the most significant developments in still projection devices."

Edgar Dole mentions that "transparencies permit a large group of students to see the work clearly where only a small group can see if the blackboard is used."

Also, in Florence Freedman's discussion of the overhead projector she says, "the principal advantage of the overhead projector is that the teacher can stand in front of the roos, facing the class while working with the transparencies, "5"

That Has Been Developed

Through the review of literature some of the questions

James W. Brown, A. V. Instruction (New York: McGraw-Hill Inc., 1964), pp. 472-473.

^{3.} Walter Arno Wittich, Andio Visual Materials (New York: Harner & Brothers, 1962), p. 337.

S. La r Dole, Must Visual Methods in Teaching (Henry Holt and Company, Ide., 1959), b. 266.

^{1,} Coratos Freedman, Classroom Teacher's Guide to A-dio Vis-1) Starrals (New York: Chilton Com, any, 1761), p. 52.

which were sentioned on macous new cost announced. Yety
for terminarches which include women of the cases materials
less that, have seen made specificating for an classes. The
To Emphay has produced a packet of transparencies concerned
Life into and three dimension. There is also a group of
"Drafting Aids Transparencies" which is produced for a mechaniand drawing class by the Instruct—A-Kits Company in St. Cloud,
Manageria.

Some companies which sell audio visual equipment were solicited for art transparencies and there were no transparencies available, 6

The Education Resource Information Center did not have available materials on the subject.

The literature indicates that available transparencies on the market today cannot fulfill an art teacher's meed to teach a variety of art projects.

Yew Ideas To Be Used For Transparencies

Although some of the ideas presented in this report are not completely new to art, they are new in the use of transparencies. Each author has a different view of a particular area in art so many different sources were reviewed.

^{6.} Les appendix,

In his two of Pieume Brooken, Forest atties that what arities descine Tollow the Alban of Maries of Professor Elear Tennan or Kunkar Andre Onliversity, Makur that the body should no Armer 50 water change such as blooms.

The use of octor in the tremmurrates to emphasize the variable soler courses amon an emphasize color, adlatent witness, and monochromatic color schemes, which are mentioned in various textbooks, would be a new idea for classroom use. Through the use of a felt tip pen, water colors, clear plastic shapes, finger paint, inks or a special grease pencil, the art teacher can make drawings with color on a clear sicest of meetats.

The use of overlays to show the gradual process of drawing an object may improve the technique of step by step drawing.

Another idea for making color schemes for the overhead projector is the use of curved glass and colored liquids. By setting the glass disks inside of each other and then pouring colored liquid into these dishes, the color can be projected ca the screen. Even though acetate is not used in the project.

Victor Perard, Plant Drawing (New York: Pitman Publishing Corporation, 1950, 7. 4.

chas. A. Bennett Company, Inc., 1967), pr. 66-62.

what Types of Transparencess Should Be Made

The type of transparency depends mainly on the purpose of the film and the goal the instructor where to achieve. If the purpose is that of a supplement rather than a step by from learning process, the transparency should be very simple, for instance, if the teacher wants to show examples of complementary colors or cool colors, he could use just one sheet and apply the color in any pattern or form; but if the teacher was planning to show that by mixing certain colors other colors could be made, he would probably use color overlays so the students could watch the process take place.

By using overlays, the instructor can control the unount of information being viewed at any one time. This can help to emphasize certain phases of the learning process.

The colored transparencies can possibly have signifision effects on the students' learning factors because most people respond to color better than to black and white materlals. As Carl J. Heyne states in his book <u>Art For Young</u>

^{1.} Ibid., p. 67

One to the fact that there are being different factors involves on sending which type of The or use, colored or about on enter, single stand or overlays, the decision thousand the mode is such individual sensings.

Some of the main types of films are as follows:

One type of film is Diago film which may be used in
solid solid colors. It is sold by Keuffel and Esser Company
as McDoken, New Jersey for \$24,00 per hundred sheets. This
film is less expensive than 3K colored film.

The 3% Company in St. Paul, Minnesota sells many types of film. Some of the films are listed from the 3M catalogue.

125 - Heavyweight film with a positive clear background which is burned ash which can be colored with a special coloring pencil. It sells for \$23.65 per hundred sheets.

127 - Heavyweight film with positive clear background which shows a black image. It sells for \$28.30 per hundred sheets,

128 - HeavyWeight negative film available in silver, red, blue, green, and yellow. It produces clear or colored image on a dark background. It costs \$34.25 per hundred sheets.

129 - Medium weight film with a positive tinted background which is available in red, blue, green, and yellow. It is similar to 127. It sells for \$34.25 per hundred sheets. 1() - Series unique rice with restricte allow hosteround with those income. This rile is physical than 127 by: lorzo guara and mass. The part is \$15.55 per handred cheets.

60% - A portuled dry mappy arrangements which shows fire actual. The price is \$33.55 per hundred sheets.

100 - Howard the color positive file which is available in red, blue, and green. It produces larges similar to appeal. This file is very expensive. It costs \$43.00 per Bundfad absets.

Inexamine Production

Usually the handmade transparencies are the least expensive. The use of contact paper for color lifts can be bought for approximately 30 cents a yard. Six transparencies could be made from the contact paper, which would make the cest of each transparency 5 cents. One sheet of 3M 133 film, which is the least expensive film on the commercial market, send cost 15 cents. X-ray film, which can be used for many different types of handmade transparencies, costs only 2 cents mesh funct.

The fhould The Transparencies Be Produced

if the material covers the subjects in a way which is maintainy what most art teachers want, then the transparencies aboute to sold on the market. It has already been stated pre-Vacibily that yeary for art transparencies are now on the market Then each teacher usually uses A different actabal of femalism, many of the femalemental about the produced locally so the the individual needs of the teacher and students. There are many times of temperatures which may be printed on a thermal copy maints are more quickly produced. A master drawing is transferred from the image to the fill.

The Diazo method, which uses amonia to draw out the oloring chemicals after the inage has been burned off by iltraviolet light, is more expensive than using black and White film, but less expensive than other color film.

The Parlab method of using special chemicals to change the film into a color is expensive and difficult to control.

Ceramics

<u>Cerunic Tools</u>. The transparencies are for advanced and beginning students. The first transparency in Plate 1 is concerned with introducing the art students to the tools needed for throwing pottery on a potter's wheel.

This particular transparency was made by using the 133 % transparency. It is just a black outline of the drawings with block printing. This was made on the thermal printer. The master is the plate in this paper.

Correct and Incorrect Shanes. The second group (Plate
0) is an excepte of good and bad shapes for pottery. The
lain objective of the stature 1% to show that if the pots
have the wrong shapes, such as those in the top row, they



TOOLS FOR WORK ON THE WHEEL

STOCK SEAL



SHAPES LIKE THESE CAN BE MADE IN ONE MELCE MOINS



THESE SHAPES CAN NOT BE MADE IN ONE-PIECE MOLDS

AND WORKS WILL BELLEVILLE

may whalk defere they are limithed. If the students learn the descript sures is made with the will bet look as many letter. The limitations are no political by using the thermal explor and number 15; 96 filts.

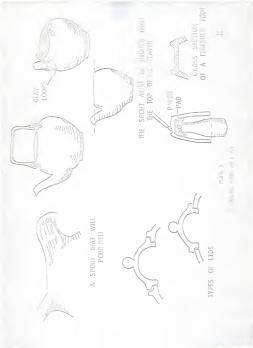
Special Details of Pottery. In Plate 3 there is a tomeern for special details which must be added to various poss. This will show the student that, once the main form is made, the small details are also important. Again, the thormal copier and 133 % film are used, with the drawing being used as the master.

Methods of Glazing. Once the pottery has been formed, the clay must be thaque fired and them glazed and fired again. The problem of glazing can become quite messy unless the student is well informed of the various procedures. Sometimes one method is good but at other times it may not work. In Plate 4, the various methods of glazing are shown so the students may see what is best.

The method for making Plate 4 is the same as for the previous transparencies.

Authods of Stacking Greenware. Before pottery is finished, it must be fired two times. The first time the clay is in the greenware stage, which is just dry clay. The recound time the pottery is fired, it is in the final glazed charge.

Ind Bethods of stacking the kiln in the greenware stage









(Faire 3) must be observed so the polither will not break. The solitary in the minesomer place and not break other solitory. To previous team from teaching, uncoin standing saterials are mass (Mana 8).

The 34 master 135 film and thornal copier were used for making this temperature.

Case the notion has been stacked, it is ready to fire.

First the Aila. Wost of the transparencies were geared

Loward the beginning student in pottery. The films in Plate

7-11 are for the more advanced students.

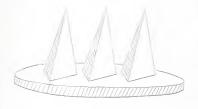
There are colored overlays to show the color of the fire and cones at each different firing temperature. The Diazo method or Parlab method may be used to develop the colored daterial. If these two methods are not available, colored memoils can be used to provide the coloring.

The first film can be on number 133 or 127 3% film which would be a dark outline of the shapes. Plates 8, 9, and 10 are Diazo overlays. They can be used to teach the students how to check kiln temperatures. Each overlay shows the appearance of the comes at a higher temperature. This test be done more quickly and easily than by having each individual look into the peep hole on a kiln while it is firing. The temperature have learned what to look for, they could waited justs the correct approximate temperature of a firing file.

5.6

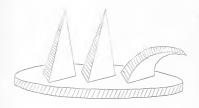
PLATE RACK IN USE

THIMBLE IN USE

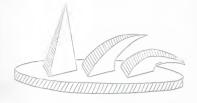


FIRING TEMPERATURE SHOULD BE APPROXIMATELY 1900 F. THE COLOR OF THE FLAME SHOULD BE YELLOW.

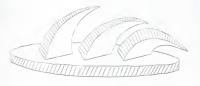
I. STILL TOO COOL



2. STILL COOL BUT WATCH CAREFULLY. (approx. 1850°F.)



3. TIME TO SHUT FIRE OFF. (approx. temp. 1900°F.)



1139°ff. DULL RED 615°C. 1706°F. CHERRY RED OR ORANGE 930°C. 010 09 08 1904°F. YELLOW 1040°C. 06 05 04 2057°F. YELLOW 1125°C. 03 2552°F. WHITE 1400°C.

risting brawing

Besic Nathod of Braking is Tale Adult. In Plate 12 the main objective is to introduce the students to a simple method of drawing and measuring the human figure. The student will not be using this method all of the time; but it is a crutch for those who have problems with proportion.

Basic Method of Drawing the Female Adult. The woman is usually smaller than the man and some of the angles are different. The picture in Plate 13 is of a woman,

The method for making the transparency was by using number 125 3M film to make a colored transparency.

<u>Basic Measurements and Planes of the Face</u>. The proportions of the face are one of the hardest parts of the figure for students to draw (Plate 14). By using mimeographed copies to follow along in class, the students may quickly learn the proportions of the face.

The film shows the various planes of the face. The right side of the film was left blank because the drawing may be done in class. The film is number 133 3%, which is used on the thermal cooler.

<u>Poreshortening the Pigure</u>. Plate 15 shows how a body looks when it is viewed from different angles. The other limbs of the body may appear foreshortened also (Plate 16).

Trying to describe the theory of foreshortening can become quite complicated unless there are some visual mater-







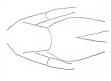
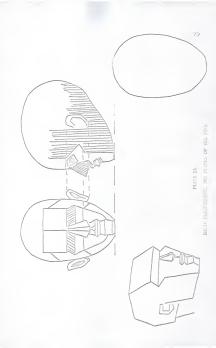




PLATE 13





PART THE TRACE TO

inly. The transmission is number 138 film.

The Mark. Detailed in change body one be write kend to draw unless the students have some idea where to start. The hand (Flate 17) has many detailed lines, which are sometimes hard to pick out unless they are seen in a drawing. This transparency shows some of these necessary lines. By looking at the picture, the students can learn what types of detail to use.

The film can be number 133 $\ensuremath{\text{3M}}.$ The thermal copier can be used.

The Foot. The foot is a complicated part of the body which needs careful study (Plate 18). By observing the outline drawings, the student can acquire a better understanding of the limb.

Showing the details of the toes and the ankle will help the students understand the main lines of the foot.

Perspective Drawin

One Foin: The one point perspective in Plate 19 is used to show how parallel lines appear to converge as they go toward the horizon. Learning perspective like this helps students show depth in their pictures.

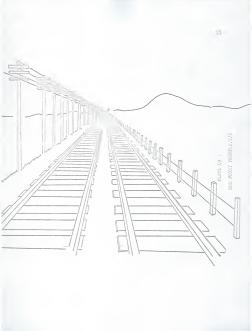
The transparency was made on the thermal copier with wumber 133 film.

Square Grid Perspective. By using a square grid, such





PLETE 18



As a Yimler, the enterpolite was to more ofvious to the viewer The Stadento may have an organizative apparatice this method (Rists (b).

The thermal copier was used for this picture.

Two Foint Fernmentive. To teach how to draw objects which have parallel sides, two point perspective is sometimes used (Plate 21). Through this method, the students may learn to draw anything from books to houses.

The thermal copier and number 133 film were used to make this transparency.

The next picture (Plate 22) shows an example of using two point perspective to draw a building. The film used in this picture is 3M 133.

Three Foint Perspective. Perspective may have many wanishing points, but three point is usually as many as the ordinary art class will use. The use of three points is commonly found when long objects are being drawn. (Plate 23).

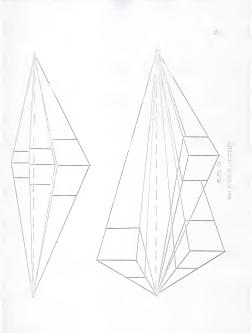
The 135 film is used on the thermal copier for this picture.

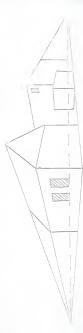
Brawing Three Dimension

"The difference between the person who knows how to beam and the person who does not is that the person who knows it sells to draw into the flat surface of the paper, giving a familing of depth or three discussion. The person who cannot that that to draw "flat" with little feeling for three discussions.



Plans on the respin







class of death, m¹⁰ The main objective of the three dimension.

Frankhammeles is to show the students each of the seven main principals of Frankhammeles, inconsion.

The Storms Leve. Plate number 24 was typed on the master sheet and then run through the thermal copies. All of the other pictures (Plates 25-31) were made on the thermal copies with number 133 film.

- Surface This law shows that if an object is placed vloser to the bottom of the page, it will appear closer to the viewer (Flate 25).
- Size This shows that larger objects appear to
 Do closer to the viewer than the smaller objects (Flate 26).
- Surface Lines The surface lines can show the direction of turning and position of a certain object by their direction (Flate 27).
- 4. Overlapping By showing one object crossing over another, the objects may appear to go back in space (Flate 28).
- Shading The object has a volumetric feeling if shading is added to the shadowed areas (Flate 29).
- Density If one object is darker than another or
 if it is more solid than another, it should appear closer to
 the viewer (Plate 30).

^{10.} Bruce WcIntyre, prouling Textbook (Santa Ana, California: Bruce WcIntyre, 1968), p. 10.

- I. SURFACI
 - . SIZE
- 5. SUKFACE LINE
- 4. OVERLAPING
- 5. SHADING
- 6. DENSITY
- FORESHORTENING

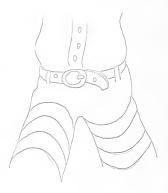
NAME AND ADDRESS OF





PL to de Si iRACE





2 171. 24

CHAMPAC

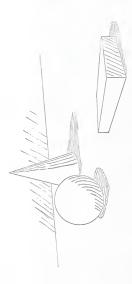


PLATE 29



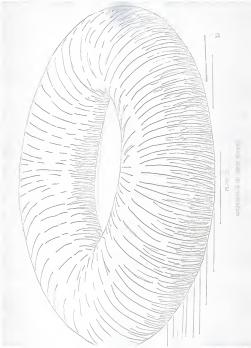
PLATE TO

?, Poresing water - The Cigure is distorted to make one term of it movem choose was another part (Plate 21).

The dia Main Elements of Lesign

The six main elements of design are line, color, shape, concellion, texture, and light and shade. These elements are typed out so the students may first read the six main elements. Line, shape, light and shade, and composition will be made on the thermal copier. The two elements color und texture will be handmade by using textured and colored adhesive transparency material,

- Line Line is one of the six major elements of design. Line cen form many patterns. This transparency (Plate 30 will show some of the different patterns formed by line. The 3% 133 film is good enough for lines.
- Color Color can add great variety and beauty to design. It can be very effective when compared to black and white. Plate 35 is an example of color in design. This type of transparency should be made by hand with adhesive color syrips.
 - 3. Shape When a line is drawn in many different inections, line sensities forms shapes (Flate 36). Shapes and have curved or straight edges or both. The 3M 133 film the for this film.
 - 4. Composition Composition is the arrangement of



DESIGN CONSISTS OF SIX MAIN ELEMENTS.

- I. LIN
 - COLO
- SHAD
- 4. COMPOSITION
- 5. TEXTURE
- 6. LIGHT AND SHADE

off (The Manager)



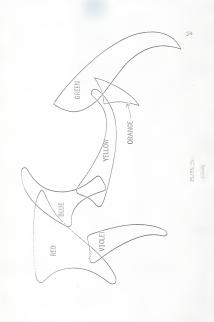




PLATE 36 SHAPE

the secretary of the caper. This transparency (Plate 37) second the difference between good and bad composition. Communities is concerned with balance, format, and center of interest. The 133 thermofax film could work fine for this implies.

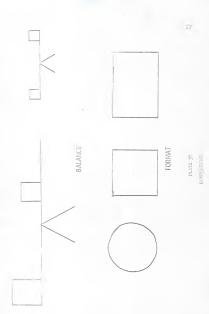
- 5. Texture Texture is concerned with things such By Youghness and accordances or various types of patterns such as checkered. The adhesive patterns on a master sheet with Disso film would produce a good effect for Plate 38.
- 6. Light and Shade Without light and shade, there would not be very much contrast in many designs. Light and chade are usually white and black which can be mixed with color or toned into armys.

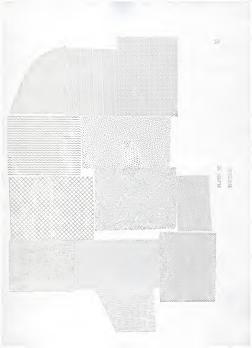
This transparency is hard to make with just grays. One of the best ways to make it is on the photo copier.

Color

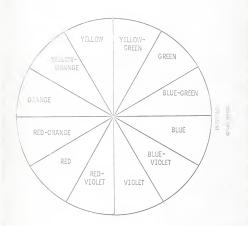
Color Micel. The color wheel consists of the three sciency and the three secondary colors plus at least six interactiate colors. Various color combinations such as been cantary colors and adjacent colors can be found on the color wheel. The film can be made by using adhesive soloted plantic with some use of the March marking pens on clear securic (Plant 40).

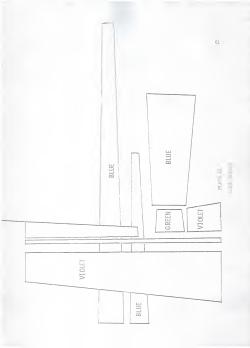
Golors. Cool colors are those such as blue and









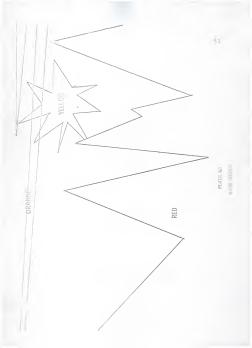


enems. For transferrancy gamelets of various soid solers which need a locater. The behavior colored plastic on clear acetate in fine (fine) %).

These colors are used to make a design. The adhesive plastic can be seen on clear sectate (Plate 42).

Color Terms. There are many terms which are referred to when speaking acout color. This film contains several of trees various terms. Some of these terms are complementary colors, primary colors, secondary colors, adjacent colors, princhrycatic colors, harmonious colors, split-complementary colors, and triad (Plate 43).

The 3M 133 film will work fine for this transparency.



PRIMARY COLORS

SECONDARY COLORS

INTERMEDIATE COLORS

COMPLEMENTARY COLORS

ADJACENT COLORS

ANALOGOUS COLOR

IKIAL

TAITCALCT

MONOCHROMATIC

MIDDINESS

PLATE 45

The burgoes of the report was to determine what types of praumpassices has been developed for art and to develop a set of transparenties which could improve art instruction at the secondary level.

Walter Wittich said, "transparencies are one of the most algorithms and developments in still projection devices,"11 Since very few transparencies have been developed in the art field except the geometric drawing area, there appeared to me a great need for now materials.

Some methods of making transparencies which are not used commercially for art, such as the use of handmade materials and color, were explained in detail.

Examples of transparencies such as overlays and colored films were introduced as types of transparencies which may be made by the teacher.

The films vary in type and price range to fit almost solved. The quickest and easiest method of making a transparency is by using the thermal copier with 3% film. The chass at film is exposed x-ray film which costs 2 cents per which is used for color lifts, sells film that 5 cents per sheet. The commercial films range in this two 15 cents to 50 cents a sheet.

why befrett, icc. cit.

The tributation are tending of immutat, figure of the content of t

to white several of these transparencies during the post year, the Filter was able to hold the attention of the attention core easily. When the instructor has the attention of the remember, they usually learn more.

if is suggested that each art teacher appraise his betted if teaching to find if the transparencies would be transparencies would be transparencies would be transparencies would be transparencies with the transparencies with the transparencies and the same basic rules.

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APPENDIX

The state of the s

STATISTICS TO SECURE AND SECURE A

January 17, 1968

Mr. Roger IN. Tyshing

Junetion City, Kansas 56441

Deur Mr. Tyshings

I am very sorry that we do not have the transparencies for the Junior digit up class you requested.

We specially in visual aids for use on felt and flannel boards.

Very truly yours,

Danald F. Hetchler, Presiden

DHW/ja

DESCRIPTION OF STREET

January 97, 1958

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Autorion Cty, Daniel

Lone of

The pure state, at our institution are parented by or for our staff. It is st one to produce one's own transparancies, less expensive and these minutes are "tailot-made" to fit each instructor's teaching townships to man

A fir as I wide, there are very few commercially made overhead

ime quite popular transpirency which is made over and over (and which I suggest you explore the possibilities of making one your-welly shows the combinations of red, blue and yellow very effectively control to the popular with these calculations.

Sincere

Paluera A. Macken,

Patricia A. Macklin, Superviso Educational Media Laboratory

TORRY.

DEG H. CoomSs

Jone suggestions, however

the regard is actually coloids the charger of this course cours, to are writefully responsible for all texts of concerning and variety one concerning the process made themselves and not a write discontinually by their

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PRE DATE OFFICE OF AND AN ALTHOUGH DE TOUR OF CHARLES FOR SE DATABLE SCHOOL AND INSTRUCTION

ADGER NOEL TIPLING

3. S., Lemiss State University, 1966

AN ABSTRACT OF A MASTER'S REPORT

sab itted in portial fulfillment of the

requirements for the degree

...ASTAR OF SCIENCE

College of Education

ilmos TATE UNIVERSITY

The Main running of the runors was no develop a set of the tall and the the country are missions.

dere coeffor were more which considered transparence devotement. When the Deep developed? What new ideas can be used for Transparencies when these of transparencies and a new way were established in transparencies be produced?

After substitute some companies that produce audiovisual installal, it was found that very few transparencies

Some 6. The new ideas for art transparencies concerned color syarlars and color lifts.

The heart of sensive transparency is the handmade translating, which is asset with exposed x-ray film. Another inexpetitive film is plain contact shelf paper. The most rapid entitled of printing transparencies involves the use of a thermal such another and a sector copy.

Diszo color dis is less expensive than thermal colored till our requires sore time for production.

If an ore transformed is teaching basic art methods, the use of transformed as everloped as a part of this study could be been. If the removed has a special method for teaching a meaning scolete. Appear, to say need to develop his own transformed by

The lowest state of the transactive drawing, design and the transactive drawing, design three leaster, the main elements of design, and tolor. Such at these subjects was broken down into smaller from . Each transactive was represented by a plate. The description of what the transparency did and how it was made were inclused.

It was recommended that the art teacher use the chermal deay process whenever possible, because of the ease with which transportation could be produced.

The Teacher should appraise his methods of teaching to see if the use of these transparencies can be helpful. Most or this material covers basic points in art squeation, and most teachers should be able to use them.