A SOURCE BOOK FOR TEACHING THREE UNITS IN DESIGN

John Herbert Kuhn, M. A. Morehead State University, 1976

Director of Thesis: Bill R. Booth

As the title indicates, this thesis project is intended to be a practical, supplementary aid for teachers and students of design. Drawing from his experiences in teaching the fundamentals of design for several semesters at the college level, the author now shares the results of that experience. The text for his teaching was Art Fundamentals by Ocvirk, Bone, Stinson, and Wigg, a widely-used, profusely-illustrated book of theory which includes studio problems. The author's flexible and sometimes innovative approach to teaching his classes resulted in research and investigations that provide the content of this paper.

Because of the scope of the subject of design and the limitations of time and depth of pursuit, only the three elements of line, shape, and color were covered in one semester's work.

In the course of his teaching, the author found it of value to the students' comprehension for them to have an overview of the subject under consideration. provided by using an outline introducing each of the three design elements. He found the studio problems provided in the text adequate, but in the interest of experimentation, creativity, clarification, or additional practice, he found it of value to supplement the students' experience with problems which were either adaptations of the problems in the text, original problems, or appropriate problems drawn from other sources. The supplementary problems are presented in the format of a lab manual. A statement of their purpose, the materials needed, and the procedures to be followed make the problems easily adaptable to individualized instruction or to students working with a minimum of teacher assistance. One of the values of this present paper is the inclusion of colored slides of student renderings of all the problems herein. The outline, supplementary problems, and slides for teaching the three design elements make up the first three chapters of this paper.

In the course of teaching and in searching for related visual materials, the author became thoroughly acquainted with the audio-visual materials related to art that are available in Morehead University's Johnson Camden

Library. Unfortunately, the materials were not being used as extensively as they might have been because titles were only available scattered throughout the numerous mimeographed pages of an accession catalog list. The author compiled, therefore, a twelve-page listing of those audiovisual materials related to art, which comprises the fourth part of this paper. It might well be the most valuable contribution of the author's efforts. Indeed, it should be of special interest to students of art education at the University. It will acquaint them with much that is currently available in the area of supplementary teaching aids and provide them with a list of readily available materials with which to enrich their practice teaching.

The fifth and final section of this paper is an annotated list of important references. Sixty-five books on all aspects of design were carefully examined and summarized in sufficient length to give the reader a thorough acquaintance with each author's purpose, the book's general contents, its particular appeal, and any unique features. For this list of references, the author restricted himself to those books available in the Morehead University library, which seem to include most of what is worthwhile in past and recent publication. The University library call numbers have been provided for the convenience of University students. The author hopes that

his annotation of this excellent collection will stimulate students' curiosity to investigate valuable books that might otherwise be ignored.

Accepted by:

Chairman

by John Herbert Kuhn

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PREFACE

This thesis project as it was conceived in a discussion between Dr. Bill Booth and myself was to be the result of teaching a course in design fundamentals to first year college students. It was to be something of a combination of syllabus, lesson plans, lab manual, suggested references, and a list of helpful audio-visual materials related to the teaching of design. directives were kept in mind, albeit in some loosely constructed fashion, as the teaching proceeded. often happens, in the course of an activity as stimulating as teaching sometimes is and as creative as it always should be, there was a departure from the original plan. Some ideas were altered, unexpected research was undertaken, lengthy investigations were initiated, and new ideas were generated. The result is a product that might differ slightly from what was intended but does abide by the "spirit" of the original concept.

The syllabus of instruction began as an outline for introducing the elements of line, shape, and color. The scope of the subject matter and the limitations of time, coupled with a desire to pursue the study in some depth, explains why only three of the design elements were taught, leaving those of form, value, texture, and space

to some future project. Added to the outline were the selected bibliography and list of visual aids. The widelyused and very satisfactory text used in the course, Design Fundamentals by Ocvirk, Bone, Stinson, and Wigg, provided the basis for the introductory outline. contained a number of adequate problems for each of the three units. For various reasons I chose to supplement these with additional problems. Sometimes I was dissatisfied with the presentation in the book and decided to adapt a problem to a new presentation. Several times I came up with what I thought was an original idea. At other times I felt like experimenting, selecting material intended for one purpose and applying it to another. These supplementary problems are included here and might be thought of as lesson plans or lab manual experiments. Their format has been organized to present problems clearly and logically and to permit students executing them to have the freedom to investigate without the need for close supervision.

As the studio work progressed during the semester, I observed some interesting results and decided that perhaps a series of colored slides might enhance the paper as a record of achievement and a stimulating guide to the creative possibilities that each problem contained. The outline, problems, and ninety-two colored slides, then,

finally emerged as the syllabus of the original plan.

While looking for appropriate audio-visual materials to use with each unit, I investigated the materials available in the educational resource center of the Morehead State University library. This led to a part of the paper not anticipated. I found that periodically the library issues mimeographed lists of their recent audiovisual acquisitions, but that these materials were arranged in accession listings and one had to read through endless irrelevant titles to cull those related to art. This frustrating experience led to the compilation of a twelve-page listing of audio-visual materials related primarily to some aspect of art, a listing hitherto unavailable. In the process of preparing this list I added information that was not available even on the accessions list, providing what I believe is one of the major contributions of this thesis project.

In surveying the card catalog and the stacks in the process of compiling unit bibliographies, I was impressed with the vast number of books related either directly or indirectly to design that teachers or students ought to know about but which they might possibly overlook. In examining some of these books, it occurred to me that a description of their contents might provide enough of a thumbnail sketch to let the reader know if a particular book was

what he was looking for, something he could use, or something worth looking at more closely. Hence, the annotated list of important references became part of the paper. It is a section that was enjoyable to write and I hope will be interesting to read.

In surveying the completed work I find that all of the essential elements of the original outline are here, and that whatever modifications came about have improved upon the original plan.

Throughout the time of preparing this work I have been greatly assisted by several people who deserve to be acknowledged. To Dr. Bill R. Booth, head of the Morehead University Art Department, go my special thanks for directing this project, for his encouragement, and for the patience with which he has awaited its completion. Several members of the University library staff also merit a special word of appreciation: Mr. Albert Evans and his student workers who were of immeasurable help in assembling the list of audio-visual materials and who lightened my research burden by many hours, and Jean. Wiggins, humanities librarian, whose many kindnesses greatly facilitated the preparation of the annotated bibliography. And finally to the members of my graduate committee go my thanks for their interest, their example as teachers, and the attention they gave to this thesis project.

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Master's Committee:

CHAPTER I

THE DESIGN ELEMENT OF LINE

Line is the simplest and yet the most expressive and at times the most profound of man's markings. Its origin lies in that primeval place we call the cradle of civilization. As line has been throughout the ages of man's ascent, so it is today--his first and last efforts to assert himself. There is a bond between the free and happy crayon scrawls of a young child and the pinched, feeble, nervous scrawl of a dying man. Each speak its own personal, characteristic message.

A study of line, pure line, line not bounding any area to suggest some recognizable object, is fascinating in itself. So numerous are its expressive possibilities that some art schools devote an entire semester to the study of that single element. Some artists have made a whole reputation on their drawings, and the mere mention of men like Ben Shahn, Saul Steinberg, Al Hirshfield, and even Picasso calls immediately to the minds of those who know their work a certain kind of line that is as distinctive as their signature. It is probably the inscrutable oriental mind that has best come to appreciate linear beauty. It is found in their careful and free-flowing calligraphy, in the simple suggestiveness of their brush

drawings, and in the dignified elegance of a single precisely-placed flower stem.

These, then, are some reflections to consider at the outset of the study of the elements of design. The exploration of line should not be approached lightly or with the disdain that we sometimes have for the simple and the obvious. The spirit that should dominate the studio is one of "hanging loose," of expectation, freedom, and simple playfulness. The proper mental attitude should be that of the scientist on the verge of discovery or the explorer about to turn on an uncharted path. This is all very exciting, or so it can be, and certainly that is the way I would want it to be.

The format of these first three chapters is the same. The element being studied is introduced by an outline. There follows a series of studio problems meant to supplement those of the text. Finally there is a list of slides illustrating various students' approaches to the different problems. The slides referred to in this list are an important and integral part of the thesis project. For reasons of economy, convenience, and security, they have not been bound into this book. They are shelved in the Morehead University Art Department and may be viewed there upon request.

Outline for Introducing a Unit on Line

- I. Line: the elementary means of visual communication
 - A. Objective level: describes simple measurements and surface characteristics
 - B. Subjective level: may be modified to suggest many emotional states and responses
 - 1. Man-made invention, an abstraction
 - 2. Developed for simplification of statements, of ideas
 - 3. Establish contours of mass
 - a) Edge
 - b) Meeting of areas
 - c) Defines drawn shape
 - d) Plastic: suggest space
 - e) Calligraphic: enriches surface
- II. Physical characteristics of lines
 - A. Measure: length and breadth
 - B. Type: creates the interest in itself
 - 1. Straight
 - 2. Angular
 - 3. Repetitious
 - 4. Rigid
 - 5. Brittle
 - 6. Curved, wavy, spiral
 - 7. Graceful
 - 8. Clumsy
 - 9. Unstable
 - 10. Undignified

- 11. Broken
- C. Direction: controls the movement of the eyes. Brings about continuity of relationships among the various elements
 - 1. Zigzag
 - 2. Curved
 - Horizontal (connotes serenity and perfect stability)
 - 4. Vertical (connotes poise and aspiration)
- D. Location: placement can . . .
 - 1. Unify
 - 2. Divide
 - 3. Balance
 - 4. Unbalance
- E. Character: related to the medium and the manipulation of the medium. Lines have emotional quality.
 - Expressive blurred, soft lines of chalk or wet watercolor
 - 2. Precise firm lines of pen, ink, pencil
 - 3. Distinctive qualities are evident in brush, burin, stick, fingers
- III. Emotional or Expressive Properties of Line: requires feeling--receptive and perceptive and having a reservoir of experiences to draw on, to relate to attitudes such as
 - A. Happy
 - B. Somber
 - C. Tired
 - D. Energetic

- E. Frail
- F. Alive
- G. Dominant
- H. Submissive
- IV. Line: as related to the other art elements
 - A. Line and Shape
 - 1. Contour
 - 2. Defines shape
 - B. Line and Value
 - 1. Parallel
 - 2. Cross-hatching
 - C. Line and Texture: the textured line
 - 1. Caused by tool
 - 2. Caused by manipulation
 - D. Line and Color: color affects the properties of line
- V. Spatial characteristics of Line resulting from value contrast may cause lines to:
 - A. Advance or recede
 - B. Writhe and twist
- VI. Line and representation: may create on two levels
 - A. Abstract
 - B. Realistic
- VII. Related Audio-Visual Materials
 - F-2876 How to Use Your Eyes, Part I
 - F-2877 How to Use Your Eyes, Part II

F-2878 Lines

F-3550 The Graphic Works of Picasso: Part I: Etchings, Drypoints, and Aquatints

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F-4294 Basic Design, Part I

F-4295 Basic Design, Part II

F-4299 Simple Design

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131 Design in Our Environment

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Line Problems

Problem 1

Experimentation with ink and water-based tempera.

Purpose

To explore the expressive qualities of lines made with ink and paint, using a variety of tools manipulated in traditional ways and any new ways you can think of.

Materials

- a) Good quality multi-purpose paper
- b) Black drawing ink
- c) Water-based tempera
- d) Metal-edge ruler
- .e) Pen holder
- f) Variety of pen points, drawing and lettering
- g) Hard lead pencil

Procedure

- 1. Prepare ten (10) 9" x 12" pieces of good quality, multi-purpose paper by drawing a 1" pencil margin very lightly on the four sides of the paper.
- 2. The experimentation. The medium is limited-black drawing ink and black water-based tempera. The tools and manipulative techniques are more varied. Consider those below:

<u>Too1</u>	Manipulation
Brush	Light or heavy touch
Pen	Wet or dry brush
Q-tip	Dripped
Finger	Dribbled

Tool (Cont'd)

Manipulative (Cont'd)

String
Cardboard (edge or corner)
Sponge (edge or corner)

Cramped hand
Loose, limp hand
Controlled or
uncontrolled
Relaxed or tense

Select the tool or tools

Experiment with different manipulative techniques.

Make five (5) plates using ink and five (5) using water-based tempera.

Your lines should not be representative of any object. Rather, let them go in a wide variety of directions. Refer to the explanation of the physical characteristics line contained in the outline on line (Section II). Your objective is to make as wide a sampling of lines as possible. Be prepared to tell how each line was made--the tool and the manipulative technique. Several different kinds of lines may be combined on a page to create an interesting non-objective arrangement.

Keep notes about the tool and technique on the back.

Time: Two hours

Problem 2

Further experimentation with media, tools, and manipulation.

Purpose

To continue the exploration of the expressive qualities of line, using new media and new manipulative

techniques. In this problem the medium is also the tool, but you might discover other tools to use with it.

Materials

- a) Good quality multi-purpose paper
- b) Pencils (hard, medium, very soft)
- c) Charcoal pencil
- d) Vine charcoal
- e) Black pastel
- f) Wax crayon
- g) Felt tip markers
- h) Felt tip marker

Procedure

- 1. Prepare ten (10) 9" x 12" pieces of good quality multi-purpose paper by drawing a 1" margin very lightly around the four sides of the paper.
- 2. The experimentation. Select your medium and consider the physical characteristics of lines and the wide variety of manipulative techniques possible. The ten plates should be representative of all the media and as many manipulative techniques as possible. For example: wax crayons can be held over a candle and dripped or dribbled. Try felt tip on wet paper. Rub some of the pastel or charcoal with your finger or a paper stump.

As in the previous problem, do not use line to suggest representative objects. Rather, use them to create an interesting arrangement. Several media may be used on the same page. Keep notes on the back of each page as to the media and technique used. You should be able to duplicate these lines should you desire to do so. Your objective is to present a wide sampling of lines illustrating physical characteristics.

Time: Two to three hours

Problem 3

Experimentation with various textured papers.

Purpose

The purpose of this problem is to experiment with different textured paper surfaces and to note how the surface or the quality of the paper itself affects the medium and the quality and character of the line. Paper can be hard or soft, rough or smooth, glossy or dull, with a wide range of texture between the two extremes.

Materials

All media mentioned in Problems 1 and 2 and a sampling of many kinds of paper. Those to be considered are:

- a) Very rough water color paper
- b) Medium rough water color paper
- c) Charcoal papers
- d) Enameled paperse) Bogus paper (grey color)
- f) Onion skin paper (typing paper)
- g) Oak tag
- h) Brown wrapping or magazine wrapper paper

Procedure

- 1. Prepare three (3) 9" x 12" plates of five (5) different types of paper. There should be a noticeable difference in the surface quality of the paper selected.
- 2. Using the media and tools listed in Problems 1 and 2, experiment on the various types of textured papers. As in the previous problems, your lines should not be of recognizable

objects. You should be interested only in the characteristics of pure line and the abstract arrangement of those lines.

Several media can be combined on each plate. Use all ten media at least once on each of the five different papers. Experiment with different papers. Experiment with different tools on the same medium. Include examples of working on a wet or dam surface.

The objective of this problem is to observe the difference textured paper can make on the quality of your lines.

On the back of each plate keep notes of the medium and tool used, and the manipulative technique.

Time: Four hours

Problem 4

Observing lines in architecture.

Purpose

It is easy to observe that a skyscraper, being a tall vertical structure, forms a vertical line in the eye. A ground-hugging, rambling ranch house forms a horizontal line. These are basic directional lines. But what about lines within these structures? Rows of windows can form lines. So can railings, overhanging roofs, decorative stone and brick laying, stairs, and exposed beams, girders, pipes, and sculptural elements. The purpose of

this problem is to make you aware of line in architecture.

Materials

- a) Good quality multi-purpose drawing paper with a smooth surface
- b) India black ink
- c) Pen
- d) Ink liner from a mechanical drawing set (useful but not necessary)
- e) Hard lead drawing pencil
- f) Tracing paper
- g) A large (4" x 6"), sharp, clear photograph (preferably front view) of a public building (a good source might be in an architecture or engineering journal or other picture magazine)

Procedure

- 1. Study your picture. Put a piece of tracing paper over the picture and trace the basic lines. Do not trace the outline of the building, only the lines within the structure. On one tracing, draw only the vertical lines. On another, draw only the horizontal lines. If there are diagonal lines, make a separate tracing of those. Which lines predominate? Are there some lines that are thicker than others? Is there any kind of rhythmic pattern in the arrangement of the lines, the size, the length?
- 2. On good quality paper, make a separate analytical ink drawing of the vertical, horizontal, and diagonal lines you discovered through your tracing. If your original picture was large, a direct tracing is acceptable. Be sure to pay attention to the relative size of all the parts.

Using tracing paper to transfer a drawing. A quick way to make several copies of the same drawing is with tracing paper. First place the paper over your original picture and copy the desired elements. Then turn this over and rub soft pencil lead over the

lines that show through.

Now place this side <u>down</u> on your good paper and retrace your original lines. The graphite will rub off on your good paper leaving an impression to retrace in pen or pencil.

Your ink rendering should be clean, accurate, and neat. (You may have to practice your ink drawing technique before submitting your final drawing.)

 Mount your original picture and your analytical drawings on grey or black poster board or mat board.

Time: Four hours

Problem 5

Lines make a difference.

Purpose

In Problems 1, 2, and 3 you learned how different media, tools, technical manipulation, and textured papers can affect the quality of a line. In this problem you will observe how line can change the appearance of a drawing even though the subject matter is the same.

Materials

- a) Media used for Problems 1 and 2
- b) A selection of textured papers
- c) Tracing paper
- d) Poster board or mat board for mounting

Procedure

1. Select a large picture (about 5" x 8") that illustrates one single, distinct, object.

Some objects to consider are: athletes (any sport), costumed characters, travel vehicles, historical buildings, animals (real or cartoon), musical instruments.

- 2. Make a contour drawing of the figure on tracing paper or redesign the figure to make an interesting contour design.
- 3. Transfer this drawing to six or more different sheets of paper approximately 7" x 9".
- 4. Select from your collection of interesting lines, those that are distinctive, interesting, unusual, and which could interpret your drawing.
- 5. Apply these lines to your tracings. Limit yourself to one type of line per tracing.
 - When you have finished you will have six or more interpretations of the same figure. Notice what a difference line can make. Analyze your drawings and be prepared to discuss the effect the quality of line used has on the subject matter. Some lines might lend themselves better to the subject matter than others. Some might change the tone or character of the subject matter.
- 6. For presentation, mount all of the drawings on a single sheet of grey or black poster board.

Time: Four hours

Problem 6

Line in natural objects.

Purpose

Line exists in abundance in natural forms. However, sometimes you have to get very close to the object to appreciate the line. You might even have to observe them

through a microscope. The purpose of this problem is to have you take a close look at nature and see what lines you can discover there.

Materials

- a) Media used in Problems 1 and 2
- b) Selection of papers used in Problem 3
- c) Mounting board (black)
- d) Rubber cement
- e) Masking tape

Procedure

- 1. Look around for line patterns in natural objects. Some things to consider might be: bark on tree or bark on different trees, vein structure in decayed leaves of all kinds, vein structure in flower petals, sea shells of all kinds, insect scales or wings, branches and twigs, stems of plants, fruits and vegetables cut in half, corn growing on a cob, etc.
- 2. Prepare four plates 5" x 7" by drawing a 1/2" margin around all four sides of each sheet of paper. Select the kind of paper that will best help you to interpret the lines you are copying, i.e., smooth or rough surfaced.

The line patterns you select should represent diversity in direction, shape, texture, thickness, and any other characteristic you note.

Your selection should require you to utilize different tools and methods of technical manipulation.

Remember, this is not to be a drawing of the object, but a recreation or interpretation of the observable line characteristics and patterns.

- 3. Note on the back of your drawing the object being observed, the medium used, and technical manipulation.
- 4. Mount or mat your finished drawings on black poster board.

Time: Four hours

List of Slides Illustrating Line Problems

Problem 1

. Ink, water tempera, smooth paper

- Slide a) Ink and brush, free flowing, smooth line
 - b) Ink and pen and stick
 - c) Ink or paint and dry brush
 - d) Ink or paint and brush

Problem 2

Pencil, pastel, charcoal, wax crayon

- Slide a) Pencil
 - b) Charcoal pencil
 - c) Vine charcoal
 - d) Black pastel
 - e) Black pastel
 - f) Black pastel
 - g) Wax crayon

Problem 3

Textured papers, all media, wet and dry techniques

- Slide a) Ink, brush, smooth wet paper
 - b) Ink and pastel on wet rough paper
 - c) Ink on wet rough paper
 - d) Ink on wet and dry rough paper
 - e) Pastel on rough dry paper
 - f) Pastel on wet and dry rough paper

- Ink on wet smooth paper Ink on wet and dry smooth paper h)
- Ink and brush on rough dry paper i)
- Ink and brush on wet and dry smooth paper j) k)
- Ink and crayon on dry rough paper

Problem 4

Lines in architecture

Slide a) Greek temple

Modern building b)

Problem 5

Lines makes a difference

<u>Slide</u> a) Pencil

- Ink on damp paper b)
- Ink on rough paper c)
- Wax crayon on rough paper (wax resist technique)
- e) Charcoal pencil
- f) Ink on dry paper

CHAPTER II

THE DESIGN ELEMENT OF SHAPE

In the writings of the Chinese philosopher Lao Tse we find the following poem:

We put thirty spokes together and call it a wheel;
But it is on the space where there is nothing that
the utility of the wheel depends.
We turn clay to make a vessel;
But it is on the space where there is nothing that
the utility of the vessel depends.
We pierce doors and windows to make a house;
and it is on these spaces where there is
nothing that the utility of the house depends.
Therefore, just as we take advantage of what is,
we should recognize the utility of what is not.

This is a poem about Notan, a Japanese word meaning dark-light. It is appropriate to quote the poem here because in the study of design it has a further meaning-the interaction between positive and negative shape. The concept of positive shape is easily understood. It is the shape of some thing, some recognizable object. But so often while giving our attention to subject matter, particularly where the two-dimensional surface is concerned, we tend to overlook the space around the subject, the negative area, and the shape that results.

Lao Tse, translated by Arthur Waley in The Way and Its Power (Boston: Houghton Mifflin Co., 1935), quoted and cited by Dorr Bothwell and Marlys Frey in Notan: The Light-Dark Principle of Design (New York: Reinhold Book Corporation, 1968), p. 6.

The negative element is very important nonetheless, but it is difficult to get students to look at it and to accept Lao Tse's teaching that what is not gives meaning to what is.

Shape, like line, has its own special beauty. It can be dull or exciting, and sometimes the difference is only a thoughtful snip of the scissors or the right kind of manipulation with a brush. Picture composition is all shape--subject matter placed on a flat plane. Sometimes the result is the illusion of space and realism, and sometimes it is flat pattern. The difference between a good composition and a poor one is the artist's sensitivity to space and shape and knowing what to do about it, knowing how to create a pleasing relationship between the figure and the ground.

In the study of shape, like line, the student has to cast aside a lot of preconceived ideas about what art is, over-concern with realistic subject matter, and learn to think and see abstractly. A good picture must always be a pleasing composition, and to achieve that the artist must know where to put things, how to make the right decisions, decisions based on knowing or feeling why something is better one place than another.

All the great artists of the past have understood this, but perhaps it is to the moderns that we should go first, for they were the ones who showed us the essence of things--pure form, shape, arrangement. It might be good to begin by looking at the works of Gauguin and Seurat, Braque and Picasso, Léger and Charles Sheeler, Matisse and Stuart Davis. Shape meant much to them. They delighted in using it and enjoyed seeing the things that could be done with it. For some, it was the essence of their art.

The student must become "shape conscious,"--to see shape before he sees object; to see the object and at the same time the shape of the space around the object. It is to this end that the study of the next element, that of shape, is directed.

Outline for Introducing a Unit on Shape

I. Definition: an area of value, color, line, or all three, possessing more or less measurable dimensions. Variety ranges include symmetrical, asymmetrical, poised, awkward, static, dynamic, outgoing, retiring, etc.

II. Use of shape

- A. Represent known objects
- B. Personal expression of feeling rather than literal copying
- C. A "starting point" for a transformation which develops shapes which are totally unlike those seen in nature. The final art form is achieved by applying the fundamental principles of composition combined with the elements of design.

The principles to be considered are:

3

- 1. The achievement of balance
- 2. The control of attention
 - a) Direction: rhythmic movement from one area to another
 - b) Duration or relative dominance: relief from optical monotony

3. Shape character

- a) Natural: derived from nature. Those molded and shaped by the forces of nature. Those derived from biology are rounded or curvilinear. The term biomorphic describes those curvilinear shapes.
- b) Rectilinear or straight line, geometric shapes, bearing the precisionistic imprint of man's invention

4. Shapes and space

- a) Pictorial depth: flat, shallow, illusionistically infinite
- b) Volumes and planes: three dimensional shapes
- c) Intuitive space: implied or "felt" space
- d) Linear perspective: a mechanical means of demonstrating the visual appearance of planes and volumes in space
- 5. Shape edges: the outlined area
- 6. Formal meaning of shape: symbolic, psychological, emotional
- 7. Picture frame as a shape: harmony between frame and contents

III. Related Audio-Visual Materials

- F-114 There is Art in Cutting Paper
- F-128 Development of Space Concepts
- F-653 Working with Paper

- F-1177 Georges Braque
- F-1186 Paul Gauguin
- F-2801 Textiles
- F-2854 Textiles, Weaving, and Stitchery
- F-2880 Shapes
- F-2881 Space
- F-4294 Basic Design, Part I.
- F-4295 Basic Design, Part II
- F-4299 Simple Design
- F-4300 Lettering in Design
- F-4301 Simple Principles
- F-4762 Shapes
- F-4785 Corporations and Their Trademarks
- K-130 Observing and Describing Shape
- K-240 Textiles
- S-259 Design and Decorative Arts of the 20th Century, DC Series
- S-261 Design and Decorative Arts of the 19th Century, DB Series
 - S-300 The Arts of the United States
 - S-302 Graphic Arts of the 20th Century

IV. Unit References

- Ballinger, Louise Bowen and Raymond A. Sign, Symbol, and Form.
- Bates, Kenneth Francis. <u>Basic Design: Principles</u> and Practice.
- Beitler, Ethel Jane and Lockhard, Bill. Design for You.

Bill Max. Forme: eine Bilanz über die Formentwicklung um die Mitte des xx Jahrhunderts. A Balance Sheet of Mid-Twentieth Century Trends in Design.

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Dair, Carl. Design with Type.

Graves, Maitland E. The Art of Color and Design.

Guyler, Vivian Varney. Design in Nature.

Henrion, F. H. K. and Parkin, Alan. <u>Design Coordination and Corporate Image</u>.

Kamekura, Yusaku, ed. Paul Rand, His Work from 1946 to 1958.

Prohaska, Ray. A Basic Course in Design.

Röttger, Ernst. Creative Paper Design.

Thompson, Samuel Winfield. Basic Layout Design: A
Pattern for Understanding the Basic Motifs in
Design and How to Apply Them to Graphic Art
Problems.

Shape Problems

Problem 1

Free exploration of curvilinear shapes

Purpose

When he begins his work, every artist is confronted with the problem of how to divide his picture frame (the piece of paper or canvas he is working on). In this problem you will divide your paper by free flowing lines

that will produce (almost by accident) interesting biomorphic shapes. The shapes and the composition they
produce can be pleasing in themselves. They do not have
to represent "things" in the real world. The purpose of
this problem is to create and appreciate pure shape.

<u>Materials</u>

- a) Good quality multi-purpose paper
- b) Tracing paper
- c) Newsprint paper
- d) Soft pencil
- e) Wax crayons or water tempera

Procedure

- 1. Take several sheets of newsprint paper 18" x 24" and draw a 1/2" margin around the edges. Then with your pencil draw a random, continuous, free-flowing line moving in any direction and overlapping at times. Work from edge to edge to fill the entire page. Make several of these. Which has the most interesting shapes? Turn the paper around. Look at it from all sides. Alter the shapes if you wish by erasing some of the lines.
- 2. Select the most interesting of your drawings and trace onto tracing paper. Feel free to alter the shapes if necessary to make a more pleasing or more interesting composition. Try to eliminate small areas and shapes that are too similar. Try to create interest, repetition, variety.
- 3. Transfer your tracing to good quality paper by rubbing graphite (pencil lead) on the reverse side and then placing this on your good paper and retracing your original lines. (This method was explained in Line Problem 4.)
- 4. Now color in the shapes with wax crayon or tempera paint. If using crayon, press hard to obtain dark rich colors and eliminate as

much of the white paper as possible. If using paint, mix a good quantity of each color before you begin. This will assure you of having enough paint to complete the problem.

Color Harmony: restrict your colors to an achromatic color scheme (no color), that is, white, black, and several different greys.

Time: Two hours

- 5. Variations on this problem
 - a) Use a straight line moving only vertically and horizontally
 - b) Use straight lines only moving diagonally
 - c) Combine straight and curved lines

Problem 2

Dividing the square into an interesting arrangement of shapes

Reference

Röttger, Ernst. Creative Paper Design. New York: Reinhold Publishing Corporation, 3rd printing, 1963.

Purpose

Again you are confronted with the problem of dividing the picture plane into an interesting arrangement of shapes. This problem will show you a rather simple way of solving your problem. The use of cut construction paper will provide freedom and flexibility in experimenting.

Materials

- a) White, black, grey construction paper
- b) Scissors
- c) Rubber cement

Procedure

1. General Rules for Problems 2, 3, and 4. In these problems your task is to divide an area into several portions, and these are to be brought into a new rhythmically balanced relationship.

How this is done is determined by the basic form you must divide, the number of cuts, the run of the cuts (straight or curved, horizontal, vertical, diagonal), the retention of the original form or its transformation. Certain limitations imposed in each problem will make good results all the more likely.

There is one basic rule: nothing must be added or taken away.

- 2. For Problem 2 you will restrict yourself to using two contrasting values and cut in only one direction, using all straight or all curved cuts. You may not mix curved and straight.
- 3. Select two pieces of 9" x 12" construction paper. One will be your background. From the other cut a 6" square.
- 4. Now cut the square apart using straight or curved lines moving in one direction.
- 5. After you have made a number of cuts (any number is acceptable), experiment by moving the sections apart, up and down, right and left. Experiment with variations in the space between sections and variations in moving the split sections up and down. Study each arrangement. When you achieve one that you feel is interesting because of its movement of line and variety of spacing, paste it to your background paper.

Remember: it must be possible to recreate the original square by pulling all of the pieces together again.

Some arrangement possibilities to try:

- a) A balanced rhythm of equal parts
- b) A balanced rhythm of unequal parts
- c) A planned alternation of space and form into a determined pattern
- d) Movement, intensified towards the middle
- e) Movement in one direction
- 6. Make two plates, one with straight cut shapes and a second with curved cuts.

Time: Two hours

Problem 3

Splitting the rectangle

Purpose

In this problem you will be concerned with further experimentation in dividing space and creating an interesting arrangement of shapes. The purpose of this problem is to focus your attention on the rectangle and the creation of new form relationships. The general rules given in Problem 2 still apply. For the basic shape you will use the rectangle. Specific directions should produce some new, exciting, and interesting results.

Materials

- a) Construction paper, assorted colors
- b) Scissors
- c) Rubber cement

Procedure

- 1. Select two pieces of 9" x 12" construction paper.
- 2. Select two other colors from which you are to cut two rectangles 6" x 10". The colors you select for these two shapes should contrast and harmonize with the two pieces of paper on which they will be mounted.
- 3. Now begin cutting up the shapes.

You may cut in any direction with straight or curved lines and go in any direction--vertical, horizontal, diagonal, or any combination of those directions.

Some arrangement possibilities you might experiment with are:

- a) Introducing movement through broken lines
- b) Establishing a balanced relationship through curved lines on both sides
- c) Splitting through horizontal and vertical cuts
- d) Division through one horizontal and several diagonal cuts
- e) Exploding the form by cutting in different directions
- f) Division according to a rule demanding a build-up around three circular areas (the grain of wood, a whirlpool, etc.)
- g) Cutting into one side of the paper only and moving the resultant shapes out and bringing them into a harmonious relationship. A strong pictorial effect will result, in contrast to the other examples.

Time: Two hours

Problem 4

Splitting the circle

Purpose

The purpose of this problem is the same as that for Problem 3. However, this time you will work with a circular or rounded shape, which is full of promise, and should produce some new and interesting results. The same general rules apply here. You may try to retain the shape or modify it. Good proportion is the guiding rule here. Variety is necessary for interest.

Materials

- a) Construction paper, assorted colors
- b) Scissors
- c) Rubber cement

Procedure

- 1. Select two pieces of 9" x 12" construction paper.
- 2. Select two other colors from which you are to cut two round or circular shapes approximately 6" to 8" in diameter. The colors you select for these two shapes should contrast and harmonize with the two pieces of paper on which they will be mounted.
- 3. Now begin cutting up the shapes. You may cut in any direction with straight or curved lines or any combination of these two.

Some arrangement possibilities you might experiment with are those given in Problem 3.

Time: Two hours

Splitting shapes by tearing the paper

Purpose

All too often we get in a rut by doing things in the traditional or accepted way. In this problem we will depart from cutting with scissors and experiment with tearing the paper instead. The purpose of this problem is to note the variety of interesting forms that result when the paper is torn rather than cut. The torn ragged edge itself is more interesting than the slick, clean, mechanical, cut edge. The overall design, too, will take on a different character. The line achieved by tearing is usually more suitable for natural forms than a straight cut.

Materials

- a) Construction paper, assorted colors
- b) Scissors
- c) Rubber cement

Procedure

- Select four different 9" x 12" sheets of construction paper for your background,
- Select four other colors from which to tear a basic shape. In selecting colors for this basic shape, think about strong contrast between the shape and the background and pleasing color harmony.

- Draw the following basic shapes on your paper and then tear them out:
 - Square: 6" 7"
 - Rectangle: 6" x 8" Circle: 6" diameter b)
 - c)
 - Oval or Free Form Rounded Shape d)
- Begin dividing the shape. Tear instead of cutting. All other previous rules apply. There are no restrictions as to direction or combinations of possibilities.
- Keep your design compact enough for the eye to comprehend how the parts could come back together and form the basic shape. too great a space between parts.
- Experiment with arrangement possibilities before pasting the design down. Try different spacings between parts. Try moving parts up and down, in and out. Strive for interest through variety.

Positive-negative shapes: cutting out and folding back

Purpose

A positive shape or form is one that is cut from a piece of paper. The hole that remains is a negative There is nothing in it, but if you lay it down on shape. a flat surface, you will see the shape of the original form that was cut out. The purpose of this problem is to make you aware of positive and negative shapes and to experiment with creating interesting compositions based on this principle.

<u>Materials</u>

- a) Construction paper, assorted colors
- b) Scissors
- c) Rubber cement

Procedure

This problem consists of a very simple procedure: cutting out a form from the edge of a given shape (rectangle, circle, triangle, free form) and folding the shape back.

There is one basic rule: nothing must be taken away or added. At the same time, your design will be successful to the extent that you can achieve harmony and variety. Harmony in this instance might mean using the same kind of line (cut or torn) or going in the same direction (vertical, horizontal, or both, or diagonal). Variety might be achieved in size, shape, arrangement, and balance of all the parts.

Although the possibilities for combinations are many, for the sake of beginning experimentation, a few restrictions will be imposed on you. Once you learn the principles and see the results, you can experiment in any direction you wish.

- 1. Select four sheets of 9" x 12" construction paper to be your background.
- 2. From four other sheets of paper cut a square, a rectangle, a circle, and a triangle. In selecting paper for this shape, use a color

that will harmonize and contrast with the color of the background. For size, the following dimensions are suggested:

- a) Square: 5"
- b) Rectangle: 5" x 8"
- c) Triangle: 5" on the shortest side
- d) Circle: 5" diameter
- 3. Using straight or curved lines, vertical or horizontal or diagonal directions, cut a shape or a number of shapes from one side or several sides of the basic form. Once the shape has been cut out, fold it out and lay it outside the figure adjacent to the edge. The rules of harmony and variety, balance, contrast, and patterns of movement (rhythm) should be observed.

The possibilities are endless. You might try similar shapes cut from opposite sides of a figure. Increase the number of shapes cut from each side. Strive for variety through difference in size. Harmony will be maintained if you use the same kind of line or retain the same general shape.

Remember: nothing must be added or taken away.

- 4. Further possibilities for experimentation
 - a) Combine splitting a form and then cutting a shape and folding it out.
 - b) Instead of cutting the positive-negative shapes, tear the shapes and fold them back.
 - c) Combine splitting by cutting and folding out by tearing, or vice-versa.
 - d) Create a rhythmic pattern by repeating the split-cut-fold pattern several times. A horizontal design might be 18" or 24" long.
 - e) Experiment with textured papers; rough against smooth, glossy against matte, striped against mottled, intense color against dull, etc.:
 - f) Instead of solid colors, select large colored magazine illustrations for your basic form and mount against a solid background.

Creating shapes by paper weaving

Reference

Mosley, Spencer; Johnson, Pauline; and Koenig, Hazel. Crafts Design. Belmont, California: Wadsworth Publishing Company, Inc., 1967.

Purpose

Shapes are not always bold and immediately perceptable. They might be subtle and not immediately perceptable because of insufficient contrast or the interpenetration of transparent shape. The purpose of this problem is to create subtle shapes and shapes within shapes through the technique of paper weaving.

Materials

- a) Construction paper, assorted colors
 b) Scissors or X-acto knife
- Ruler c)
- d) Pencil

Procedure

- Fold a 9" x 12" piece of construction paper in half vertically. With a pencil mark a 1/2" margin opposite the folded end. Now mark vertical parallel strips and cut on these lines up to the margin. |In weaver's terminology this piece is known as the warp.
- Now cut strips of paper for weaving. This is the weft strip, and can be of various widths. To weave, take a weft strip and place it under the warp strip on the edge and over the next warp strip, continuing under and over across the warp. Weave the second weft strip in the opposite order, next to the first

one. As each strip is woven, push it into place tightly. In weaving, this is called beating. Repeat the process until the warp is filled in with strips.

3. Creating patterns and shapes. Patterns and shapes will emerge depending on how the warp piece is cut and the color and width of the weft strips.

If the warp piece and weft pieces are cut the same width, then a checker board pattern will emerge. This is a basic pattern called a plain weave.

To weave a twill pattern, weave the weft strip under one and over two warp strips. The diagonal is made by shifting the under shot one space on the right each time.

A herringbone pattern is woven in the same manner as the twill, but the diagonal is interrupted and the steps repeated in reverse order.

For the greatest possible variety in woven patterns, experiment with cutting the warp strips at angles, or in curved or wavy patterns. It is not necessary that the lines be parallel. Mix straight and curved lines. Even in cutting straight parallel lines, vary the width between the cuts. The possibilities for cutting are endless.

The weft strips must be cut straight, but they do not have to be of the same width. Experiment with strips 1/4", 1/2" and 3/4" wide. Do not limit yourself to only one color. Try a scheme using closely related hues; one using black and white and color. Here again, the possibilities are endless.

4. Assignment

a) Select four pieces of 9" x 12" construction paper for the warp.

- (1) Cut one with straight parallel vertical lines.
- (2) Cut one with a combination of vertical and diagonal lines.
- (3) Cut one with wavy lines in a vertical direction.
- (4) Cut one with a combination of straight and curved lines.
- b) For the weft, select harmonizing colors and vary the width of the cut. Much experimentation can be done here.
- c) Mat the finished pieces.

Four designs using the wax crayon free form problem

Purpose

This problem is a variation of Problems 3 and 5 and utilizes the wax crayon free form design you made in Problem 1. The purpose is to experiment with making a pleasing composition applying the positive-negative, cutfold back technique to a ready made design. As with all problems, the benefit to the student comes from the experimentation, noting the results, and evaluating the success or failure of the technique or its application.

Materials

- a) Wax crayon design created in Problem 1
- b) Scissors
- c) Rubber cement
- d) Black or white construction paper

Procedure

- Cut the wax crayon design into quarters. 1.
- 2. With one quarter make a positive-negative design by cutting and folding back as in Problem 5.
- 3. With another quarter make an exploded rectangle design as in Problem 3.
- 4. With another quarter combine an exploded design with a positive-negative.
- Leave the final quarter as it is. 5.
- Each of the designs is to be mounted with rubber cement on either black or white paper depending on which makes the most pleasing background. Contrast is an important consideration here.

List of Slides Illustrating Shape Problems

Problem 1

Free exploitation of curvilinear shapes

- Slide a) A completed drawing
 - A detail of Slide a A detail of Slide a b)

 - A detail of Slide a

Problem 2

- Dividing the square into an interesting arrangement of shapes
- Slide a) Curved vertical cuts
 - b) Straight vertical cuts

Splitting the rectangle

- Slide a) Straight cuts, vertical and horizontal
 - b) Variation -- shadow duplication
 - c) Curved cuts
 - d) Curved cuts
 - e) Curved cuts
 - f) Curved cuts
 - g) Curved cuts
 - h) Curved cuts

Problem 4

Splitting the circle

- Slide a) Straight cuts only
 - b) Straight cuts only
 - c) Straight cuts only
 - d) Straight cuts only
 - e) Curved cuts only
 - f) Curved cuts only
 - g) Curved and straight cuts
 - h) Curved and straight cuts

Problem 5

Splitting shapes by tearing the paper

- Slide a) Circular shape
 - b) Square shape
 - c) Circular shape

Problem 6

Positive-negative shapes: cutting out and folding back

- Slide a) Square shape, straight cuts
 - b) Square shape, straight and curved cuts
 - c) Rectangular shape, vertical and horizontal straight cuts
 - d) Rectangular shape, diagonal straight cuts
 - e) Rectangular shape, straight vertical, horizontal, and diagonal cuts
 - f) Rectangular shape, straight vertical, horizontal, and diagonal cuts, split arrangement
 - g) Rectangular shape, straight and curved cuts
 - h) Triangular shape, curved cuts
 - i) Circular shape, curved cuts
 - j) Circular shape, divided, curved cuts

:- Creating shapes by weaving paper

- Slide a) Straight, parallel, vertical cuts
 - b) Straight, vertical and diagonal cuts
 - c) Curved lines cut in a vertical direction
 - d) Curved lines cut in a vertical direction
 - e) Curved lines cut in a vertical direction
 - f) Curved lines cut in a vertical direction
 - g) Combination of straight and curved cuts
 - h) Combination of straight and curved cuts

Problem 8

Four designs using the wax crayon free form problem

- Slide a) One quarter of the free-form design of Problem 1
 - b) One quarter of the free-form design of Problem 1
 - c) Positive-negative shapes cut from a quarter of Problem 1
 - d) Positive-negative shapes
 - e) Split rectangular shape
 - f) Split rectangular shape

Adaptations of Previous Problems

- Slide a) Positive and negative shapes cut from a basic amoeboid shape and then arranged with superimposition
 - b) Exploded square, vertical and horizontal cuts, with some sections cut out
 - c) Exploded square with sections removed and superimposed
 - d) Positive and negative leaf shapes cut from black paper and mounted on an orange ground

- d) Intermediate colors: a mixture of a primary with a neighboring secondary color
- e) There is actually no limit to the number of intermediate colors because a change of proportion in the amount of primary and secondary will make a change in the resultant hue.
- f) Color Wheel: a systematic placing of the primary, secondary, and intermediate colors on a wheel, with the primaries being placed at equal distances from each other (yellow at the top), the secondary colors in between, and the intermediate colors between the primary and the secondary
- g) The closer together the colors appear on the color wheel, the closer their hue relationship.
- h) Hues which appear directly opposite each other afford the greatest contrast and are known as complementary colors.
- 2. Value: the lightness or darkness of hues
 - a) It is possible to have many steps between the darkest and lightest appearance of any one hue.
 - b) Value indicates the quantity of light being reflected. A large amount of light is reflected from yellow; a small amount from violet.
 - c) At spectrum intensity each color has a normal value which indicates the amount of light it reflects.
 - d) Normal values can be darkened or lightened by the addition of white or black pigment.
 - e) The normal value range extends from the lightest hue (yellow) to the darkest (violet) with the other hues assigned a place in between as indicated below.

	WHITE	
	High Light	Yellow
Yellow-orange	Light	Y-Green
Orange	Low Light	Green
Red-orange	Medium	Blue-Green
Red	High Dark	Blue

Red-violet Dark B-Violet
Violet Low Dark
BLACK

- Intensity: the brightness or dullness of a color
 - a) Indicates the <u>quality</u> of light being reflected
 - b) Also called saturation or chroma
 - c) The saturation point or the purest color is actually found in the spectrum produced by a beam of light passing through a prism
 - d) Artist pigment which comes closest to resembling this color is said to be at spectrum intensity
 - e) Four ways of changing the intensity of colors when mixing pigments
 - (1) Adding white
 - (2) Adding black
 - (3) Adding grey (black and white)
 - (4) Adding the complementary color.
 When intensity is changed by
 this method, the resulting
 colors have a certain liveliness
 of character
 not present when they are
 neutralized by a grey pigment
- D. Color relationships
 - 1. The character of a single color may be changed when it is seen with other colors.
 - 2. Colors may be closely related or contrasted in varying degrees.
 - 3. The greatest contrast is between colors directly opposite on the color wheel.
 - 4. Triadic colors: three colors equidistant from each other on the color wheel
 - a) Primary triad: primary colors
 - b) Secondary triad: secondary colors a softer contrast than that of the primary triad

- 5. Analogous colors: neighboring colors; those which appear next to each other on the color wheel; the closest relationship between colors
- 6. Warm colors: those associated with sun or fire
- 7. Cool colors: those associated with sky, water, ice
- 8. Simultaneous contrast: the effect of one tone upon another
 - a) When two different colors come into direct contact, the contrast will intensify the difference between them
 - b) The contrast can be in the characteristics of intensity or value
 - (1) A greyed blue will look brighter if placed against a grey background; it will look greyer or more neutralized against a bright blue background.
 - (2) Any given color will look lighter and brighter against a black background and darker and duller against a white background.
 - (3) When a warm tone is seen in simultaneous contrast to a cool tone, the warm tone is warmer and the cool tone cooler.
 - (4) When a neutralized grey is placed next to a strong positive color, it tends to take on a hue character complementary to the positive color.
 - (5) It is better to develop a color composition all at once rather than trying to finish one area completely before going on to another.

II. The uses of color

A. To give spatial quality to the pictorial field

- 1. Supplement or even substitute for value differences in order to give plastic quality, to build a form from the advancing and receding characteristics of certain colors
- 2. Create interest through the counterbalance of backward and forward movement in pictorial space
 - a) Warm colors seem to advance
 - b) Cool colors seem to recede
- B. To create mood, symbolize ideas, and serve as a vehicle for the expression of personal emotions and feelings
 - 1. Light, bright colors make us feel happy; cool, dark, or sombre colors are generally depressing.
 - 2. Different hues may have different emotional impacts. Red is happy and exciting; blue may be dignified, sad, or serene.
 - 3. Values and intensities of the hues in a color tonality may have an effect on its feeling tone.
 - a) A decided value range gives a color scheme vitality and directness.
 - b) Closely related values and low intensities suggest subtlety, calmness, and repose.
 - 4. Color may symbolize ideas or abstract qualities as virtue, loyalty, honesty, evil, cowardice through traditional association.
 - 5. Color can reflect the artist's personal emotions. Most truly creative artists evolve a personal style of color tone which comes primarily not from the subject but from their own feelings about it.

The emotional approach to color appealed particularly to the expressionistic painters who used it to create an entirely subjective treatment having nothing to do with objective reality.

- C. To accomplish aesthetic appeal by a system of well-ordered color relationships
 - 1. Color balance: variety in unity. There must be relationships between the color tones, but these relationships must be made alive and interesting through variety
 - Color combinations: basic types of organization
 - a) Unified color patterns
 - (1) Use of one hue only (monochromatic).

 Variety achieved by using
 contrasting values or intensities.
 - (2) Keying a number of colors toward one hue. (A little is mixed with every color used in the combination.) Glazing over a varicolored pattern with a single tone of color can become the key color.
 - (3) All warm or all cool colors in combination. However, a small amount of a complementary or a contrasting neutral may be used for variety.
 - b) Contrasting color patterns: hue combinations having strong contrast and variety of color. These have the greatest possibilities for expressive effect.
 - (1) Where the <u>basic unity</u> of a color pattern has been established, use strong contrasts of color in small accents.
 - (2) Separate all or part of the tones by a <u>neutral</u> line or area.

 Absolute black or white lines are the most effective neutrals for this purpose.
 - (3) Use a large area of neutral grey or neutralized color as a background for clashing contrasts of color.
 - c) Combinations of color frequently defy the exactness of any rules and are still satisfying to the eye. The artist uses

color to give a highly personalized meaning to the subject matter of his work.

III. Related audio-visual materials

- FM-108 Orange and Blue
- FM-276 Vincent Van Gogh
- F -279 Light and Color
- F -649 Working with Paints
- F -832 Van Gogh

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- F -834 Expressionism
- F -837 Fauvism and Early Expressionism
- F-1976 The Purple Flower
- F-1978 The Yellow Bird
- F-1979 The Green Caterpillar
- F-1980 The Blue Balloon
- F-1981 The Red Car
- F-1993 The Orange Pumpkin
- F-2879 Color
- F-4281 Colour
- F-4549 Color in Your Clothes
- K--129 Observing and Describing Color
- S =143 Color and You

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Burris-Meyer, Elizabeth. Color and Design in Decorative Arts.

Feldsted, Carl J. Design Fundamentals.

Graves, Maitland E. The Art of Color and Design.

Prohaska, Ray. A Basic Course in Design.

Scott, Robert Gillam. Design Fundamentals.

Snelgrove, Isabel Pearl. The Practice and Apprection of Design.

Color Problems

Problem 1

Experimentation with mixing tints and shades

Purpose

The best understanding of color comes from long experience in using color, mixing, blending, studying the relationship of one color to another. In this problem you will have the experience of observing what happens to pure color when it is mixed with white and black.

Materials

- a) Water tempera paint
- b) Good quality No. 12 brush
- c) Illustration board or pebble mat board
- d) Mixing tray with many compartments (white or clear plastic ice cube tray is ideal, or a tray similar in design)
- e) Containers for water
- d) Scraps of board for sample colors
- e) Metal-edge rule
- f) Small X-acto knife with No. 11 blade

Procedure

In this problem you will make twelve (12) value scales for tints of the primary, secondary, and intermediate hues and twelve value scales for the shades of the primary, secondary, and intermediate hues.

A <u>tint</u> is any color that has been mixed with white.

A <u>shade</u> is any color that has been mixed with black. A value scale is a series of tints or shades of varying degrees.

- 1. Cut 24 strips of illustration board, bristol board, or pebble mat board 2" x 14".
- 2. Rule the strip in 2" squares.
- 3. To make a tint value scale take one of the strips and in the square at one end paint a pure hue (exactly as it comes from the bottle) of a color. At the other end paint white.
- 4. Paint the other squares now, adding a little of the pure color to the white for the square that comes after the white square. As you continue to paint the squares between the pure white one and the pure color one, the squares should progressively get darker, closer to the value of the pure color. The colors mixed with white are the tints.

After you have completed one tint value scale, have it approved by the instructor. If you are proceeding correctly, continue to paint value scales for the other eleven tints.

5. A shade value scale is made by adding black to the pure color. At one end of a cardboard strip, paint a square of pure color and at the other end a square of pure black. Mix the intervening values by adding

a little black to the pure color. Have your value scale approved by your instructor, punch a hole in the white end or the black end of each scale and assemble on a metal ring or tie together with string.

Time: Approximately 24 hours. As the student gains experience in mixing and learns to control the values between the two extremes, the mixing and painting goes much faster.

Problem 2

Mixing complementary colors

Purpose

When colors opposite each other on the color wheel are mixed they produce a neutral or "greyed" color. Depending on the proportion of each color, the mixture will tend to look more like one or the other. The best way to understand what happens when complementary colors are mixed is to carry out such an experiment. The purpose of this problem is to help you to understand what happens when complementary colors are mixed and to appreciate the rich variety that can be produced in this way.

Materials

- a) Water tempera paint
- b) Good quality No. 12 brush
- c) Illustration board or pebble mat board
- d) Mixing tray
- e) Containers for water
- f) Scraps of board for sample colors
- g) Metal-edge rule
- h) Small X-acto knife with No. 11 blade

- i) Black mat board for mounting your charts
- j) Rubber cement

Procedure

In this problem you will make six (6) charts illustrating the mixing of the complementary colors of red and green, yellow and violet, blue and orange, red-orange and blue-green, red-violet and yellow-green, and yellow-orange and blue-violet.

- 1. Cut six (6) strips of illustration board, or mat board 2" x 18".
- 2. Rule the strip into 2" squares.
- 3. To make your first mixed-complement scale take one of the strips and in the square at one end paint a pure hue of one of the colors. At the opposite end paint a square of the complement. Now paint the squares in between, adding the darker color to the lighter. The square in the middle should be the most neutral, showing no resemblance to either of the complements. The colors to the right and left of this middle color will show progressively strong traces of the color at the end.
- 4. Before painting the other five complement charts, have your first one approved by the instructor to be certain that your color balance is correct.
- 5. After you have completed the six charts showing the mixture of color complements, mount them with rubber cement on black mat board. Allow for a 2" margin of black board at the top and the sides of your charts, 1" between each of the charts, and 3" at the bottom.

Time: Six hours

Mixing tints and shades of mixed comlements

Purpose

In Problem 1 you mixed tints and shades of the primary, secondary, and intermediate colors. In Problem 2 you saw what new colors resulted when you mixed complementary hues. In this problem you will see what happens when you mix tints and shades of each of the colors in your chart of mixed complements. You should be impressed with the wide range of distinct colors that can be produced by mixtures of two hues, white, and black.

Materials

- a) Water tempera paint
- b) Good quality No. 12 brush
- c) Illustration board, bristol board, or pebble mat board
- d) Mixing tray
- e) Containers for water
- f) Scraps of board for sample colors
- g) Metal-edge rule
- h) Small X-acto knife with No. 11 blade
- i) Black mat board for mounting your charts
- j) Rubber cement

Procedure

- 1. Prepare one strip of board 2" x 18" for a chart showing the mixture of two complementary colors.
- 2. Prepare nine (9) strips of board 2" x 16". These will be for the four tints and four shades of each of the separate colors in your mixed complement chart.

- 3. Proceed to mix your two complements as you did for Problem 2. However, this time, mix enough of each color to make four tints and four shades. This will require about eight tablespoons of each color. Your experience will tell you if this is too little or too much.
- 4. After you have painted your mixed complement chart and reserved enough of each color of paint, begin painting four tints and four shades of the two pure colors and the seven mixtures. Once this work has been completed you are ready for step 5.
- 5. With your X-acto knife and metal-edge ruler, cut each of the squares in your mixed-complement chart apart and line them up vertically with the lighter color at the top.
 - Next assemble the tints for each color in the vertical arrangement to the left and the shades to the right.
- 6. In arranging colors on the black mat board for pasting, provide for equal space at the top and sides and the same amount of space plus 1" at the bottom. The individual colors of the mixed complements should be placed 1/4" apart on a vertical line. The tints and shades should be placed 1/4" to the left and the right of the original color. The tint and shade charts will likewise be 1/4" from each other. The overall arrangement will have tints to the left and shades to the right and the lighter values at the top progressing down to the darker ones at the bottom.

Time: This is a lengthy problem and requires much patient mixing and comparison of values. It is only an estimate that the problem will take from ten to fifteen hours to complete.

List of Slides Illustrating Color Problems

Problem 1

- Experimentation with mixing tints and shades
- Slide a) Value scales for tints

Problem 2

- Mixing complementary colors
- Slide a) Six value scales mixing complementary colors

Problem 3

- Mixing tints and shades of mixed complements
- Slide a) The finished project: tints and shades of each of the values produced by mixing a set of complementary colors

Problem 4

- Stitchery project
- Slide a) Wall hanging: felt applique on burlap with stitchery
 - b) Another view of the wall hanging from Slide a)
 - c) Framed stitchery composition. Felt applique on burlap with stitchery
 - d) Hooked rug, analogous color scheme

CHAPTER IV

AUDIO-VISUAL RESOURCE MATERIAL

The following list represents those audio-visual materials closely related to teaching art and available from the materials center of Morehead State University's Johnson Camden Library. The list is unique in that it represents a first effort to classify materials by their fields of study. Periodically, the materials center publishes its recent acquisitions, but these are contained in general accessions lists which are inconvenient to use because all the titles have to be skimmed to discover those related to a particular discipline. This present list should prove a time saver to those art students who use the materials center. It may also encourage more students in art education to explore the abundance of teaching aids available to them.

This present list still has to be perused for materials relating to a particular teaching unit. The titles have not been classified. Because of the numerous ways a particular piece of material might be used, classification would have been a very time-consuming task because of the necessity of cross-classification and might not have been all that beneficial since classifications are to some degree subjective. As the pages stand, they

are shorter and easier to read than the original list from which they were extracted. In most cases the title is descriptive of the contents.

The materials which art teachers will find most useful are 16mm sound films, silent film loops of three to four minutes duration, film strips, kits, slides, and transparencies. They are available to students as well as well as to faculty. Many students will find, however, that some of the materials are on permanent faculty or department loan. When this is the case, the materials center librarian can best advise the student on the procedure for borrowing the materials he needs. For example, many of the art history slides are on permanent loan to the art department, are catalogued there, and must be obtained from that department.

While checking all of the materials on this list, several problems arose of which the reader should be aware:

(1) This list is complete as of June, 1975 and all materials accounted for. Since that time new materials may have been purchased. Other materials may have been lost or withdrawn from circulation. Slide sets are particularly difficult to keep whole and intact. When a particular item cannot be located, the librarian should be consulted for an explanation. Students should also inquire regularly about new purchases.

(2) The distributors from which the audio-visual materials were originally purchased are listed. Some may no longer be in business or may have merged with another firm. The names and addresses of distributors are as correct as the 1975 catalog.

Finally, a word is ncessary to explain the numerous code symbols given in the listing. The letters and numbers in brackets refer to a distributor on the distributors' list. The key to the other abbreviations is given below:

CA = Cassette tape K = Kit

CH = Chart MA = Spirit masters

MP = Film loop R = Phonograph record

F = Film strip S = Slides

FM = Sound film T = Reel-to-reel tape

G = Teacher's guide TR = Transparencies

Distributors of Audio-Visual

Educational Materials

- [1] American Library Colored Slide Co. 305 East 45th St. New York, NY 10017
- [2] American Optometric Association 7000 Chippewa St. St. Louis, MO 63119
- [3] American Textile Manufacturers Institute 1501 Johnston Building Charlotte, NC 28281

- [4] Bailey-Films Associates 11559 Santa Monica Blvd. West Los Angeles, CA 90025
- [5] BFA Educational Media 2211 Michigan Avenue Santa Monica, CA 90404
- [6] Brookwood & Company P.O. Box 3137 Mount Royal Station Duluth, MN 55803
- [7] Budek Films & Slides Division AVID Corporation P.O. Box 4263 10 Tripps Lane East Providence, RI 02914
- [8] California Design Pasadena Art Museum Pasadena, CA 91100
- [9] Center of the Study of Democratic Institutions 136 East 57th St. New York, NY 10022
- [10] Churchill Films 662 North Robertson Blvd Los Angeles, CA 90069
- [11] Classroom Material, Inc. 93 Myrtle Drive Great Neck, NY 11021
- [12] Comma
 Communication Material Exchange
 1535 Ivar Ave.
 Hollywood, CA 90028
- [13] Common Ground, Ltd. 44 Fulham Rd. London, SW 3, England
- [14] Coronet Instructional Films 65 E. South Water Street Coronet Building Chicago, ILL 60601

- [15] Creative Concepts P.O. Box 649 Carlsbad, CA 92088
- [16] Creative Education Foundation 1125 Pine Ave. 17D Redlands, CA 91405
- [17] Curriculum Films, Inc. 10 East 40th Street New York, NY 10016
- [18] Denoyer-Geppert Co. 5235 Ravenswood Ave. Chicago, ILL 60640
- [19] A.B. Dick Co. 5700 West Touhy Ave. Chicago, ILL 60648
- [20] Douglas Grime Address unobtainable
- [21] Educational Audio-Visual, Inc. 29 Maple Ave. Pleasantville, NY 10580
- [22] Educational Dimensions Francis Lewis Blvd. Flushing, NY 11358
- [23] Prothmann Associates, Inc. 650 Thomas Ave. Baldwin, NY 11510
- [24] Educational Production
 Bradford Road, East Ardsley
 Wakefield, Yorkshire
 England
- [25] Encyclopedia Britannica Educational Corp. 425 North Michigan Ave. Chicago, IL 60611
- [26] Eye Gate House, Inc. 146-01 Archer Ave. Jamaica, NY 11435

- [27] Hester and Associates
 P.O. Box 20812
 11422 Harry Hines Blvd.
 Dallas, TX 75229
- [28] Imperial Film Company, Inc. 321 South Florida Ave. Lakeland, FL 33803
- [29] Instructo Corporation 1635 North 55th St. Paoli, PA 19301
- [30] International Film Bureau, Inc. 332 South Michigan Ave. Chicago, IL 60604
- [31] McGraw-Hill Films 330 West 42nd St. New York, NY 10036
- [32] McKnight and McKnight Publishing Co. Bloomington, IL: 61701
- [33] Museum Extension Service 80 West 40th St. New York, NY 10018
- [34] National Education Association 1201 Sixteenth St., N.W. Washington, DC 20036
- [35] New York Times
 College and School Service
 229 West 43rd St.
 New York, NY 10036
- [36] Pictorial Films 1501 Broadway New York, NY 10019
- [37] Project Seven Productions 331 North Maple Dr. Beverly Hills, CA 90210
- [38] Sandak, Inc. 4 East 48th St. New York, NY 10017

- [39] Warren-Schloat Productions, Inc. 150 White Plains Road Tarrytown, NY 10591
- [40] Scholastic Magazines 906 Sylvan Way Englewood Cliffs, NJ 07632
- [41] School of Visual Arts 209 East 23rd St. New York, NY 10010
- [42] Scott Education Division 104 Lower Westfield Rd. Holyoke, MA 01040
- [43] Society for Visual Education, Inc. 1345 Diversey Parkway Chicago, IL 60614
- [44] 3M Company
 Visual Products Division
 3M Center
 St. Paul, MN 55101
- [45] Time-Life Multimedia Education Time & Life Building Rockefeller Center 1271 Avenue of the Americas New York, NY 10020
- [46] University of Wisconsin Bureau of A.V. Instruction Madison, WI 53706
- [47] Visuals for Teaching
 Division of Visuals in Science
 1137 North Cole Ave.
 Los Angeles, CA 90038
- [48] Visual Production London, England
- [49] Milady Publishing Corp. 3839 White Plains Road New York, NY 10067

Morehead State University Johnson Camden Library Materials Center

List of Audio-Visual Materials Related to Art

Films: Silent Film Loops (3-6 minutes)

Self-explaining, usually with captions

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Crayon I: Etching [27] 1971
 MP-125
         Crayon II: Inlay [27] 1971
 MP-126
 MP-127
         Clay: Pinch Method [27] 1971
 MP-128
         Clay: Coil Method [27] 1971
 MP-129
         Clay: Slab Method [27] 1971
 MP-130
         Designing from Nature [27] 1971
 MP-131
         Fingerpainting [27] 1971
 MP-132
         Lettering [27] 1971
 MP-133
         Paper Mache [27] 1971
 MP - 134
         Experimental Painting I [27] 1971
 MP-135
         Design in Tissue Paper [27] 1971
 MP-136
         Collage [27] 1971
 MP-137
         Making a Mobile [27] 1971
 MP-138
         Figure Drawing: Contour [27] 1971
         Figure Drawing: Shading [27] 1971
 MP-139
 MP-140
         Print Processes I: Gadget Prints [27] 1971
 MP-141
         Print Processes II: Relief and Brayer Printing
           [27] 1971
 MP-142
         Sand Casting [27] 1971
         Puppetry [27] 1971
 MP-143
 MP-144
         Sculpturing in Soap I: Design [27] 1971
. MP-145
         Stitchery I: Cardboard and Screen [27] 1971
         Stitchery III: Traditional Stitches [27] 1971
 MP-146
 MP-147
         Watercolor: Paper Preparation [27] 1971
 MP-148
         Weaving I: Simple Looms [27] 1971
 MP-149
         Wood Scrap Sculpture [27] 1971
 MP-150
         Sculpturing in Paper [27] 1971
         Sculpturing in Plaster-Vermiculite [27] 1971
 MP-151
 MP-152
         Poster Making [27] 1971
 MP-153
         Watercolor: the Wash [27] 1971
         Watercolor: Wet-into-Wet [27] 1971
 MP-154
 MP-155
         Design in Wire [27] 1971
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Films: 16mm Sound

- FM-26 Care of Art Materials. B/W, 11 min. [31] n.d.
- FM-43 Paper and Pulp Making. Color, 11 min. [14] n.d.
- FM-83 Arts and Crafts in West Africa. Color, 11 min. [4] 1969.
- FM-85 African Craftsmen: The Ashanti. Color, 11 min. [4] 1969
- FM-108 Orange and Blue. Color, 15 min. [31] 1962
- FM-232 Leonardo da Vinci and His Art. Color, 13 min. [14] n.d.
- FM-257 Art Appreciation. Color, 14 min. [14] 1972
- FM-265 Michelangelo and His Art. Color, 16 min. [14]
- FM-276 Vincent Van Gogh. Color, 21 min. [14] n.d.
- Jacques Lipchitz: Birth of a Bronze. FM - 27910 min. 1966
- FM-288 The Renaissance. Color, 11 min. [14] 1950
- FM-294 Rembrandt, Painter of Man. Color, 19 min. [14] 1958

Filmstrips

- F-114 There Is Art in Cutting Paper. [43] 1963
- F-128 Development of Space Concepts. (G) [30] n.d.
- F-130 Developmental Levels in Children's Art Expression. (G) [30] n.d.
- F-279 Light and Color. [31] 1960
- F-394 The Renaissance. [43] 1963
- F-447 America's Cultural Revolution. (G) [35] 1966
- F-546 Designing a Set. [4] 1951
- F-568 [31] 1952 Design in Wood.
- F-571
- Wood Finishing, Part I. [31] 1953 Wood Finishing, Part II. [31] 195 F-572 [31] 1953
- F-643 We Work with Paper and Scissors. [25] 1953
- We Work with Paper Mache. [25] 1953 We Work with Clay. [25] 1953 F-644
- F-645
- We Make Designs with Needle and Thread. F-646 [25] 1953
- F-647 We Make Stick Puppets. [25] 1953
- F-648 We Paint Designs and Pictures. [25] 1953
- F-649 Working with Paints. [25] 1955
- F-650 Making and Using Stencils. [25] 1955
- Working with Wax Crayons. F-651 [25] 1955
- F-652 [25] 1955 Making Marionettes & Puppets.
- F-653 Working with Paper. [25] 1955
- F-654 [25] 1955 Experimenting with Sculpture.
- F-667 Great Art Past to Present: Painting. (G, R) [11] n.d.

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F-1489
        Cathedral of St. Mark.
                                 [28] 1967
F-1490
        Venice: The Doge's Palace.
                                     [28] 1967
F-1491
        Cathedral S. Ambrogio.
                                 [28] 1967.
F-1492
        Ravenna: Echoes of Empire.
                                    [28] 1967
F-1522
        Peking: The Forbidden City. [45] 1952
F-1523
        Heritage of the Maya. (G) [45] 1952
F-1524
        Athens.
                 [45] 1952
F-1814
        Chief Roman Deities.
                               (R) [31] 1967
F-1834
                 [31] 1968
        Drawing.
F-1835
        Fingerpainting.
                          [31] 1968
F-1837
        Watercoloring.
                        [31] 1968
F-1838
        Painting.
                   [31] 1968
F-1839
        Clay Modeling.
                        [31] 1968
F-1976
        The Purple Flower. (R) [14] 1968
F-1978
        The Yellow Bird. (R) [14] 1968
F-1979
        The Green Caterpillar.
                               (R) [14] 1968
F-1980
        The Blue Balloon.
                           (R)
                               [14] 1968
        The Red Car. (R) [14] 1968
F-1981
F-1992
        The Purple Flower.
                            (R) [14] 1968
F-1993
        The Orange Pumpkin.
                            (R) [14] 1968
F-1994
        The Yellow Bird. (R) [14] 1968
F-1995
        The Green Caterpillar. (R) [14] 1968
F-1996
        The Blue Balloon.
                           (R) [14] 1968
F-1997
        The Red Car.
                      (R) [14] 1968
F-2145
        Mother and Child in Modern Art.
                                         [2] n.d.
F - 2153
        Early Art No. 1.
                          (R) [39] 1968
F-2154
        Sculpture No. 2. (R) [39] 1968
F-2155
        Masks No. 3. (R) [39] 1968
F-2246
        Roman Architecture in Turkey.
                                        [7] 1967
F-2247
        Carthage. [7] 1967
F-2248
                  [7] 1967
        Pompeii.
F-2249
        Roman Sculpture, Part III.
                                     [7] 1967
F-2250
        Roman Sculpture, Part II.
                                    [7] 1967
F-2251
        Roman Sculpture, Part I.
                                   [7] 1967
F-2252
        Herculaneum. [7] 1967
F-2253
        Roman Mosaics. [7] 1967
F-2255
        The Purple Flower. (R) [14] 1969
F-2256
                            (R) [14] 1969
        The Orange Pumpkin.
F-2257
        The Yellow Bird. (R) [14] 1969
F-2258
        The Green Caterpillar. (R) [14] 1969
F-2259
        The Blue Baloon. (R) [14] 1969
F-2414
        Cathedral S. Ambrogio.
                                [28] 1967
F-2415
                                [28] 1967
        Along the Grand Canal.
F-2416
        The Doge's Palace.
                           [28] 1967
F-2417
        Echoes of Empire.
                            [28] 1967
        Cathedral Duomo.
F-2418
                          [28] 1967
F-2419
        Venice: Cathedral of St. Mark.
                                         [28] 1967
F-2446
        The Odyssey, Part II. (R) [28] 1967
        The Odyssey, Part I. (R) [28] 1967
F-2447
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F-2448
                      (R) [28] 1967
         The Iliad.
        The Gods of Mt. Olympus. (R) [28] 1967
African Art and Culture: Early Art. (R) [39] 1968
F-2449
F-2686
F-2687
         African Art and Culture: Sculpture.
                                                  (R) [39] 1968
         African Art and Culture: Masks. (R) [39] 1968
F-2688
F - 2750
         Art Appreciation, Part I: 16th and 17th Centuries.
           (R) [47] 1969
F-2751
         Art Appreciation, Part II: 17th and 18th Centuries.
           (R) [47] 1969
F-2752
         Art Appreciation, Part III: 18th and 19th
         Centuries.
                     (R) [47] 1969
F-2753
         Art Appreciation, Part IV: 20th Century European
           and American Art. (R) [47] 1969
F-2769
         Art, Architecture, and Religion.
                                              (R) [26] 1968
         The Parthenon. (R) [39] 1969
F-2793
F-2794
         The Bayeux Tapestry. (R) [39] 1969
F-2795
        Merode Altarpiece. (R) [39] 1969
         The Third of May.
F-2796
                              (R) [39] 1969
                   (R) [39] 1969
F-2797
         Olympia.
F-2798
         Guernica.
                    (R) [39] 1969
F-2799
         Jewelry.
                    (R) [39] 1969
F-2800
        Architecture. (R) [39] 1969
F-2801
         Textiles. (R) [39] 1969
F-2854
         Textiles, Weaving, and Stitchery. [8] n.d.
F-2855
         Ceramics. [8] n.d.
F-2876
        How to Use Your Eyes, Part I. (R) [39] 1968
F-2877
        How to Use Your Eyes, Part II. (R) [39] 1968
F-2878
         Lines.
                  (R) [39] 1968
F-2879
                  (R) [39] 1968
         Color.
F-2880
                  (R) [39] 1968
         Shapes.
         Space. (R) [39] 1968
F-2881
F-2961
         The Forum in Rome. (T, G) [21] 1965
        The Late 19th and Early 20th Century.
F-3275
                                                    [28] n.d.
F-3276
         The Dutch Renaissance. [28] n.d.
F-3277
         The 18th and the Early 19th Century.
                                                   [28] n.d.
F-3278
        The Italian Renaissance. [28] n.d.
F-3358
        Appreciation of Furniture, Part I.
                                                 [48] n.d.
F-3359
        Appreciation of Furniture, Part II.
                                                  [48] n.d.
        Appreciation of Furniture, Part III.
F-3360
                                                   [48] n.d.
        Appreciation of Furniture, Part IV. Appreciation of Furniture, Part V.
F-3361
                                                  [48] n.d.
F-3362
                                                 [48] n.d.
        Appreciation of Furniture, Part VI. [Emphasis: Art, Part I. (G) [30] n.d. Emphasis: Art, Part II. (G) [30] n.d.
F-3363
                                                  [48] n.d.
F-3410
F-3411
F-3534
        Offset Inks and Printing Papers. (R) [19] 1967.
        Artwork Your Blueprint to Printing. (R) [19] 1967
Leonardo. (R, G) [25] 1970
F-3535
F-3540
F-3541
        Michelangelo. (R, G) [25] 1970
        Raphael. (R, G) [25] 1970
F-3542
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F-3543
        Titian. (R. G) [25] 1970
        Van Eyck. (R. G) [25] 1970
F-3544
F-3545
               (R. G) [25] 1970
        Durer.
F-3550
        The Graphic Works of Picasso: Part I: Etchings,
          Drypoints, and Aquatints. (R, G) [17] 1970
F-3551
        The Graphic Works of Picasso: Part II: Litho-
          graphs and Linoleum.
                                (R, G) [17] 1970
F-3569
                 (R) [14] 1970
        Crafts.
F-3630
        Art Masterpieces.
                            [47] 1969
F-4107
        Pictures at an Art Exhibition. (R) [21] 1961
        Civilization: The Frozen World. (R, G) [45] 1971
F-4108
        Civilization: The Great Thaw.
F-4109
                                       (R, G) [45] 1971
        Civilization: The Romance and Reality. (R, G)
F-4110
          [45] 1971
        Civilization: Man -- the Measure of All Things.
F-4111
          (R, G) [45] 1971
F-4112
        Civilization: The Hero as Artist.
                                             (R, G) [45]
          1971
F-4113
        Civilization: Protest and Communication.
                                                     (R, G)
          [45] 1971
F-4114
        Civilization: Grandeur and Obedience. (R, G)
          [45] 1971
F-4115
        Civilization: The Pursuit of Happiness. (R, G)
          [45] 1971
F-4116
        Civilization: The Light of Experience.
                                                  (R, G)
          [45] 1971
F-4117
        Civilization: The Smile of Reason. (R, G) [45]
          1971
F-4118
        Civilization: The Worship of Nature. (R, G) [45]
          1971
F-4119
        Civilization: The Fallacies of Hope. (R, G) [45]
          1971
        Civilization: Heroic Materialism. (R, G) [45]
F-4120
          1971
F-4121
        Civilization: Rising Expectations. (R, G) [45]
          1971
F-4122
        Civilization: New Art Forms.
                                       (R, G) [45] 1971
        Civilization: Science or Technology: Madness or
F-4123
          Miracle. (R, G) [45] 1971
        The Early Years: Native American Painting, Part I. (R, G) [39] 1971
F-4190
F-4191
        The Early Years: Native American Painting,
        Part II. (R, G) [39] 1971
Colonial American Painting. (R, G) [39] 1971
F-4192
F-4193
        Ancient Greece: The Age and Its Art, Part I. (R,
          G) [39] 1970
F-4194
        Ancient Greece: The Age and Its Arts, Part II.
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(R, G) [39] 1970

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F-4195
         Ancient Greece: The Age and Its Arts, Part III.
           (R, G) [34] 1970
F-4196
         The Black Experience in the Arts. (R, G) [39]
           1971
F-4197
         The Black Experience in the Arts.
                                               (R, G) [39]
           1971
F-4198
         The Black Experience in the Arts.
                                               (R, G) [39]
           1971
F-4199
         The Black Experience in the Arts.
                                               (R, G) [39]
           1971
         Scenery.
F-4279
                    (G) [13] n.d.
F-4281
         Colour. (G) [13] n.d.
        Basic Design, Part I. [24] n.d. Basic Design, Part II. [24] n.d.
F-4294
F-4295
F-4296
        Theatrical Costume, Part I. [24] 1946
Theatrical Costume, Part II. [24] 194
F-4297
                                         [24] 1946
F-4298
        Practical Application. [24] 1946
F-4299
         Simple Design.
                         (G) [24] n.d.
F-4300
         Lettering in Design. (G) [24] n.d.
F-4301
         Simple Principles. (G) [24] n.d.
F-4393
         Pueblo Pottery. [24] n.d.
        Michelangelo and the Sistine Chapel. [45] 1950
F-4404
F-4406
        Athens.
                 [45] 1952
F-4413
        Mighty Rome. [36] n.d.
F-4443
        Ancient Egypt.
                          l2] n.d.
F-4454
        Ancient Egypt.
                          [45] 1951
F-4457
        Art in Nature.
                         [43] n.d.
F-4458
        Art Has Many Uses. [43] n.d.
F-4514
        The Epic of Man: Coming of Civilization. (G) [45]
           1957
F-4515
        The Epic of Man: the Oldest Nation, Egypt.
                                                         (G)
           [45] 1957
F-4516
        The Epic of Man: Egypt's Eras of Splendor.
                                                         (G)
           [45] 1957
F-4517
        The Epic of Man: the First European Civilization:
           Crete.
                   (G) [45] 1957
F-4518
        The Epic of Man: the First European Civilization
           Crete.
                   (G) [45] 1957
F-4519
        The Epic of Man: the Great Age of Warriors:
           Homeric Greece. (G) [45] 1957
F-4520
        The Epic of Man: Forebears of the West: the Celts.
           (G) [45] 1957
F-4549
        Color in Your Clothe's . [31] 1953
        How to Use Your Eyes, Part I. (R) [39] 1968
How to Use Your Eyes, Part II. (R) [39] 1968
F-4758
F-4759
F-4760
        Lines.
                 (R) [39] 1968
F-4761
                  (R) [39] 1968
        Colors.
                  (R) [39] 1968
F-4762
        Shapes.
F-4763
                 (R) [39] 1968
        Space.
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F-4769 Casting and Molding. (R) [32] n.d. F-4785 Corporations and Their Trademarks. (R) [32] n.d. F-4871 Africa: Artistic Heritage. (G) [25] 1969 Drawing and Prints. (G) [40] 1970 F-4896 F-4897 (G) [40] 1970 Painting. F-4898 Three Dimensional Art. (G) [40] 1970 Art by Talented Teenages: Drawings and Prints. (G) [40] 1971 F-4899 F-4900 Art by Talented Teenagers: Painting. (G) [40] 1971 Art by Talented Teenagers: Three Dimensional Art. F-4901 (G) [40] 1971 F-4902 Art by Talented Teenagers, 1972: Drawings and Prints. (G) [40] 1972 F-4903 Art by Talented Teenagers, 1972: Painting. (G) [40] 1972 F-4904 Art by Talented Teenagers, 1972: Three Dimensional (G) [40] 1972³ Art.

Kits

Bulletin Boards in Action. [5] 1966

F-4912

(Two or more types of media usually boxed or in portable container)

Macrame. (FL) [27] 1971
Understanding the Crafts: Macrame. (1F, 1R, 1G) [22] 1972
The Aztecs. (1F, LR, 1G) [25] 1972
Understanding Art. (6F, 3R, 1G) [22] 1969
Creativity: A Way of Learning. (1F, 1R, 1G) [34]
Observing and Describing Color. (2F, 1CA, 3TR, 1G) [25] n.d.
Observing and Describing Shape. (2F, 1CA, 1TR, 1G) [25] 1972
Ancient Civilizations: Egypt. (1F, 2TR, 20MA, 1G) [29] 1971
Ancient Civilizations: Rome. (1F, 2TR, 20MA, 1G) [29] 1971
Ancient Civilizations: Greece. (1F, 2TR, 20MA, 1G) [29] 1971
World HistoryThree Great Eras of Mankind. (3F, 3R, 1G) [16] 1970
Media and Meaning: Human Expression and Technology, Part I. (80S, 1CA, 1R, 1G) [10] 1973
Media and Meaning: Human Expression and Technology, Part II. (80S, 1CA, 1R, 1G) [10] 1973

- K-167 Folklore and Legendary Heroes. (4FS, 2CA, 1G) [26] 1969
- K 203Greek Mythology. (6F, 3R, 1G) [14] 1968
- K-206 Romanticism in Art and Music. (2F, 2CA, 1G) [21] 1972
- K 207Impressionism in Art and Music. (2F, 2CA, 1G) [21] 1970
- K 219Teaching the Crafts: An Inservice Course. (1F, 1R, 1G) [22] 1971
- K-220 Afro-American Art, continued from K-224. (1F, 1R, 1G) [22] 1968
- K-221 Understanding the Crafts: Letters and Posters. (2F, 2R, 1G) [22] 1971
- Careers in Illustration. (1F, 1R, 1G) [22] 1968 Careers in Fine Arts. (1F, 1R, 1G) [22] 1968 Afro-American Art. (1F, 1R, 1G) [22] 1968 K-222
- K-223
- K 224Afro-American Art. (1F, 1R, 1G) [22] 1968
- K-240 Textiles. (4F, 4R, 4G, 1CH) [3] 1974
- K 299Understanding the Crafts: Pottery. (1F, 1CA, 1G) [22] 1970
- K-355 Greek Mythology. (6F, 3R, 1G) [14] 1968

Slides

- S-97 Medieval Architecture. (40S) [41] 1967
- S-99 Modern Art. (100S) [41] 1967
- Ancient Architecture. (14S) [41] 1967 S-100
- S-101 Roman Architecture. (10S) [41] 1966
- S-102 Classical Greek Architecture. (10S) [41] 1966
- S-103 Early American Architecture. (10S) [41] 1966
- Modern American Architecture. (10S) [41] 1966 S-104
- S-105 Renaissance Architecture. (8S) [41] 1966
- S-115
- Pompeii. (38S) [7] 1966 Herculaneum. (39S) [7] 1966 S-116
- S-117 Indian Art. (38S) [7] 1966
- Wooden Architecture of Sweden. (40S) [7] 1966 Modern Architecture of Finland. (40S) [7] 1966 S-118
- S-119
- S-120 Russian Medieval Architecture. (40S) [7] 1966
- Painting in the New Kingdom. (40S) [7] 1966 Sculpture (Egyptian Art). (40S) [7] 1966 S-121
- S-122
- Sculpture (Egyptian late period.) (40S) [7] 1966 S-123
- S-124 The Ptolemaic Period. (40S) [7] 1966
- Coptic Art. (40S) [7] 1966 S-125
- The Evolving Creative Vision. (40S in 2 boxes) S-126-
- S-127 [23] n.d.
- S-128-Italian Children's Painting. (100S in 2 boxes)
- S-129 [23] n.d.
- S-130-Design in Our Environment. (60S in 2 boxes) [23]
- S-131 n.d.

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S-132-
        Phases and Trends. (40S in 2 boxes) [23] n.d.
S-133
S-134-
        History of Crafts.
                              (50S in 2 boxes) [23] n.d.
S-135
S-136-
        Mixed Media.
                        (100S in 2 boxes) [23] n.d.
S-137
S-138-
        Growth through Art. (94S in 2 boxes) [23] n.d.
S-139
        Art in Education Provides. (100S in 2 boxes) 23
S-140-
S-141
          n.d.
S-142
        Design and Technique of Enameling. (25S) [23]
S-143
          n.d.
S-144
        Things against the Sky.
                                   (35S) [23] n.d.
S-145
        Design and Creating Fine Jewelry. (25S) [23].n.d.
S-146
        Seeing Is Believing. (35S) [23] n.d.
S-147
        Art and the Adolescent. (36S) [23] n.d.
S-180
        Architectural Styles. (61S) [7] 1967
S-182
        History of Japanese Art: Prehistoric Era.
           [7] n.d.
S-183
        History of Japanese Art: Formation of the National
           Gokken.
                    (20S) [7] n.d.
        Architectural Styles. (11S) [49] 1969
African Arts. (54S) [1] n.d.
S-207
S-211
S-219
        Art and Social Revolution. (80S) [46] n.d.
S - 247
        Art through the Ages. (375S) [1] n.d.
S-256
        Architecture of the 20th Century, AC Series.
           (452S) [38] 1972
S-257
        Painting of the 20th Century, PC Series. (493S)
           [38] n.d.
S-258
        Sculpture of the 20th Century, SC Series.
           [38] n.d.
S-259
        Design and Decorative Arts of the 20th Century,
          DC Series. (129S) [38] n.d.
S - 260
        Architecture of the 20th Century, CPC Series.
           (52S) [38] n.d.
S-261
        Design and Decorative Arts of the 19th Century,
          DB Series. (143S) [38] n.d.
S-271
        Mosaics in the Tomb of Galla Placidia, Ravenna,
          Italy. (10S) [15] 1973
S - 272
        S. Appollinaire Nuovo, Ravenna. (5S) [15] 1973
S - 273
        Mosaics in S. Apollinaire Nuovo, Ravenna, Italy.
           (10S) [15] 1973
S - 274
        S. Vitale, Ravenna. (10S) [15] 1973
        S. Appollinaire in Classe. (7S) [15] 1973
The Pantheon, Rome. (10S) [15] 1972
S-275
S - 276
S-277
        Maison Carée: A Temple. (10S) [15] 1972.
        Apollo and Daphne by Bernini. (5S1) [15] 1972
David by Verrochio. (5S) [15] 1973
S - 278
S-279
S - 300
        The Arts of the U.S. (1948) [38] n.d.
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S-301	Photography, Code #F. (95S) [38] n.d.	
S-302	Graphic Arts of the 20th Century. (160S) [38]	
S-303	Indian Arts and Artifacts. (273S) [38] n.d.	

Transparencies

TR-374	Home Styles.	[44] n.d.		
TR-375	Period Design	Furniture.	[44]	n.d.
TR-475	Psychology in	Advertising.	[6]	n.d.

CHAPTER V

ANNOTATED LIST OF IMPORTANT REFERENCES

The purpose of any bibliography is to direct the reader's attention to books which an author has found helpful in writing his paper and which might also be of value and interest to his readers. The following list of references is considered important not because the references have been quoted in the body of this work but because they are related either directly or indirectly to a knowledge of design, the teaching of which is the concern of this work. These are books of theory, fundamentals, techniques, aesthetics, history, marketing, and manufacturing, but all are concerned in some way with design either as a fine or as a practical art. Many of these books might easily be ignored or overlooked by art students because the title or library card entry is too brief, incomplete, or misleading. What I have attempted to do is carefully examine all those books with which I thought teachers and students of design ought to be acquainted. Admittedly, any serious student could do this for himself. I have saved him the time and provided a tool which he should find useful.

The annotations, though somewhat longer than usual, were intended to be of sufficient length to give the

reader a complete and accurate idea of an author's purpose, a book's contents, and any of its unique features; in short, to let the reader know as much as possible about a book without actually reading it, to provide him with sufficient information to decide whether a particular book contains what might be of interest to him.

All these books are available in the Morehead University library, but this list does not include all of the design books on the shelves. I have limited my selection to standard works, those of recent publication, and those that as a teacher and student I thought would be of special interest to other teachers and students. Because I have restricted myself to using the University library, the list may not contain all the pertinent books in print, but by comparison with several other libraries, the Morehead collection seems to be representative of all that is current and worthwhile. Finally, the University library call numbers are included for the convenience of those students on campus who might read this paper.

Alexander, Christopher. Notes on the Synthesis of Form. Cambridge: Harvard University Press, 1964. Pp. 216.

745.4 Notes about the process of design--the
A375n process of inventing concrete objects which
display physical order, organization, and form in
response to function. A book of theory about
solving design problems. Footnotes to every
chapter.

Alexander, Mary Jean. Handbook of Decorative Design and Ornament. New York: Tudor Publishing Co., 1965. Pp. 128.

A377h Chapter I the author considers the general aspects of design as they relate to the creation of forms. In succeeding chapters, she explores basic geometric forms, forms derived from nature, miscellaneous forms based on artificial or man-made forms, enclosed space (design surrounded by a border), bands and borders, all over and repeat patterns, and historic ornament. A slightly oversize book with large, clearly-drawn black and white illustrations. Of special value to the costume or stage set designer.

Anderson, Arthur D. <u>A Designer's Notebook</u>. Bloomington, Illinois: McKnight & McKnight Publishing Co., 1966.

Pp. xi + 228.

745.2 A book written primarily for teaching the A545d principles of good design in an industrial arts curriculum. The twelve chapters of this book are arranged by areas of design, woodworking, plastics, drafting, and metalworking. The suggested problem, design information, and design techniques can be adapted to beginning as well as advanced problemsolving experiences. Each chapter presents the problem information in the order of: (1) Suggested problems -- simple and complex; (2) Design information; (3) Process information; (4) Core problem; (5) Variations of the core problem; (6) Fabrication of information; (7) Other solutions to the problem; (8) Experimentation. The layout is attractive and designed for easy reading. Illustrated in black line drawings with color blocks added for emphasis and visual interest.

Ballinger, Louise Bowen and Raymond A. Sign, Symbol, and Form. New York: Van Nostrand Reinhold Co., 1972. Pp. 191.

An analysis of what makes a good sign is extremely difficult, since one can find signs of charm and elegance that were produced by craftsmen working in the idiom of folk art and others that were designed and constructed by the most sophisticated technicians. Collected in this book are signs, symbols, and designs of unusual interest and merit, photographed by the authors as they moved about the world. The collection is comprehensive enough to dispel the almost universal feeling that all signs are tawdry and tasteless.

This volume will be useful to signmakers, architects, town and traffic planners, graphic designers, and those actually engaged in commerce and industry who are seeking inspiration for signs for their own organizations. The book should also interest those non-artists who are, nonetheless, appreciative of the place of art and design in man's environment. An oversize book with large black and white photographs. Eight pages of colored plates. Bibliography.

Ballinger, Raymond A. <u>Layout and Graphic Design</u>. New York: Van Nostrand Reinhold Co., 1970. Pp. 96.

In beginning a work of art, the artist is at once faced with the problem of composition. When composition is applied to the format of a beautifully printed page, it is known as layout, the subject of this book. Written for the student who is interested in the graphic arts, this book provides basic knowledge and much inspiration about layout. In each section of the book, the author presents projects (which may easily be used as assignments) in studying the various aspects of the problem of layout.

Illustrations or examples of good layouts are selected from material of older vintage as well as contemporary successes. Another feature of the book is the commentary on the tools and equipment required by the layout designer and some of the techniques of preparing a finished printed page. Index.

Baranski, Matthew. Graphic Design--A Creative Approach.
Scranton, Pa.: International Textbook Co., 1960.
Pp. xxxi + 208.

The term graphic design as used by the author refers to works of art which are produced and may be reproduced by the process of printing. As the result of experimentation with many students, the author has been able to gather a vast number of usual and unusual ways of creating designs by utilizing surfaces which will "print" or reproduce what has been carved, incised, or even scratched upon them. These experiments should open new ways of designing for many. The author has prepared a sound instrument for the use of teachers and pupils who can profit by experimentation as a way

Bates, Kenneth Francis. <u>Basic Design: Principles and Practice</u>. Cleveland: World Publishing Co., 1960. <u>Pp. 172.</u>

in design. Bibliography and index.

toward broader adventures in creative achievement

This book is no do-it-yourself guide. Rather 745.4 it is a why-do-it book. The author emphasizes general rules which are the backbone of style in B329b all ages. But he never lays down hard and fast precepts from which the designer cannot depart. The author attacks "do-it-yourself" kits that delude the would-be artist-craftsman into thinking he is doing original creative work. What is more, the product of his effort is often in very bad taste. The hobbyist must choose outlets other than art for his leisure hours or make up his mind to get some basic training in design principles which is what this book provides. Intended for beginning students as well as professionals. Methods of practice and types of problems are suggested to utilize the theory. The application of design principles to practical problems follows the theory. There are excellent illustrated examples for every chapter. Index and bibliography.

Beitler, Ethel Jane and Lockhart, Bill. Design for You.
New York: Wiley, 1961. Pp. 206. 2nd ed.: 1969.
Pp. xxi + 247.

745.4 The elements of line, shape, space, and color B423d are considered in separate chapters. Studio problems are included. This would be an excellent text for a serious high school or introductory

college design course. The two editions of this book are identical in chapter headings. Many illustrations are the same. The second edition has a more contemporary typographical look. The book itself is an example of good design. Both editions are clean, neat, and attractive in their easy-to-read layout. Bibliography, glossary, and index.

Bevlin, Marjorie Elliott. Design through Discovery. 2nd ed. New York: Holt, Rinehart, and Winston, 1970. Pp. ix + 382.

745.4 This is a book of theory with no studio B571d problems. The book's purpose is to reveal the 1970 links by which creative design processes maintain a vital continuum with the fundamental creative methods inherent in nature.

The author-teacher-artist examines design in nearly every facet of the arts. The first chapters explore the general principles of design found in nature, identify the elements, and assess their significance. The concepts articulated here are then applied to an examination, in subsequent chapters, of design in some fifteen different modes of expression. The illustrations (473 b/w and 32 color) are well selected and contemporary. Throughout the book the designer has established a close visual relationship between the text and the illustrations. The summary at the end of each chapter is a unique feature of this book. Bibliography, glossary, notes, and index.

Bill, Max. Forme: eine Bilanz über die Formentwicklung

um die Mitte des xx Jahrhunderts. A Balance Sheet

of Mid-Twentieth Century Trends in Design. Un

Bilau de l'Evolution de la Forme au Milieu du XXe

Siecle. Basel: K. Werner, 1952.

Pp. 168.

745.43

This is primarily a picture book. It illustrates a survey of the evolution of form towards the middle of the Twentieth Century. In tri-lingual text illustrated with large black and white photographs, the author sets forth his philosophy of the simple, straightforward ideal of good forms and honest designing for everything man desires to shape or reshape from plastic teacups to the planning of better towns for the next generation

to live in. Pictured here are "forms in nature" and "mechanical forms," everything from transparent crystals of fossil salt to a Copenhagen landscape. Index of designers.

Blossfeldt, Karl. Art Forms in Nature: Examples from the Plant World. New York: E. Weyhe, 1929.

Pp. xv + 120.

740 B656a Oversize

This is a book of 120 photograph plates of flower and leaf forms in various stages of natural growth enlarged frequently as many as 25 times. By this enlargement of certain parts of a plant, the relationship between art and nature is revealed with startling clarity. By these pictures, which have not been retouched or artificially manipulated, this work demonstrates the close connection between the forms produced by man and those found in nature. There is unfolded to the artist who approaches nature with the aid of the camera's eye a world comprising all the forms of past styles. The fickle delicacy of a Rococo ornament, the heroic severity of a Renaissance chandelier, the mystically entangled tendrils of the Gothic style--all these shapes and forms trace their original design to the plant world. This is an excellent source book for the study of form. There is no text other than six. pages of introduction.

Borsig, Tet. <u>Designs in Nature</u>. New York: The Viking Press, 1961.
Pp. 96.

779.34 V945d

Goethe once wrote, "I have observed that nature systematically produces living forms as patterns for all art forms." In this collection of photographic illustrations, the author reveals the world of forms which surround us everywhere in nature and yet remain hidden to most of us. The reader will discover here an inexhaustible richness of patterns and forms. Isolating, lighting, and enlarging natural subject matter reveals abstract forms that transcend the realm of Thus, the natural forms are presented in a art. larger dimension where there is infinite variety. Aided by the camera, we see models of art in nature with greater clarity and keener perception. The law of order and the variety within that order display themselves in these natural forms just as they do in a work of art. Similar in concept to

Art Forms in Nature, this volume adds to that rich collection of natural design.

Bothrod, Aaron. A Pottery Sketchbook. Madison: University of Wisconsin Press, 1967.

Pp. xi + 196.

738.15 The sketch has often been considered an B677p artist's revelation of what lies nearest his heart. An artist's sketchbook is his storehouse of ideas. Into its pages he pours his dreams, his stray and idle notions, his useful and useless doodles, his plans for further explorations. The fantasies, abstract devices, and diverting variations on the promptings of nature which make up the sketches are especially suitable for the study of line as a decorative element. examples shown here could easily be adapted to other industrial design products such as fabrics and wall coverings. There is no text beyond the preface. The author lets the sketches speak for themselves, and this they do with whimsical loquacity.

Bothwell, Dorr and Frey, Marlys. Notan: The Light-Dark Principle of Design. New York: Reinhold Book Corporation, 1968.

Pp. 79.

745.4 Notan is a Japanese word meaning dark-light. B749n The principle of Notan is the interaction between positive (light) and negative (dark) space and is the basis of all good design whether it is painting or photography, sculpture or mosaics, textiles or pottery, jewelry or printmaking, architecture or interior decoration. This book is concerned with the practical applications of Notan. Through a series of six controlled problems of increasing difficulty, the student is led progressively and inductively toward that experience. A good basic book for the art classroom library. Illustrations are in black and white.

Bradley, Charles B. <u>Design in the Industrial Arts.</u>
Peoria, Illinois: C. A. Bennett Co., 1952.
Pp. 254.

745.43 Intended as a classroom text, this book was 8811d written to teach an understanding of the importance of the art elements as well as the industrial phase in vocational arts classes. Part

I presents the basic factors and essential principles of design in a concrete manner. In Part II the practice of design is discussed, and an attempt is made to apply the principles of design to the various materials which may be used in the industrial arts shop and to point out the various design possibilities in connection with the work. Black and white photographs and drawings illustrate the topics under discussion. The illustrations are of industrial designs of the 1930s and 40s, but interesting for that very reason. A bibliography is provided for Part I and for every chapter of Part II. Index.

Brochmann, Odd (translated by Maurice Michael). Good or Bad Design? London: Studio Vista; New York: V. N. Reinhold, 1970. Pp. 94.

"Scandanavia has produced more good design in 745.4 B863g the last forty years than the rest of Europe and America put together." (Publisher's Preface) In this book the author, a distinguished Norwegian architect, provides a guide to just what good (and bad) design is all about. He discusses the concepts of the ugly and the good-looking, what makes some things attractive and others repulsive, and to what extent our reactions are linked with, and so limited by, period and circumstances, or are of more enduring validity. Understanding these things enables the architect or designer to work with increased awareness towards creating a stimulating environment; it endows the layman with a capacity for genuine choice in shaping his immediate private environment.

This is a basic text intended principally for secondary school students. It is also for anyone interested in his surroundings. This refreshing book will provide many guidelines to what is not good design. Illustrated with free style black and white pen sketches.

Burris-Meyer, Elizabeth. Color and Design in Decorative
Arts. New York: Prentice-Hall, Inc., 1937.
Pp. xx + 572.

752 The author had three purposes in writing this B951c book: (1) To foster interest in color and design, (2) To provide the reader with a thorough knowledge of the history and uses of color and design, and

(3) To inspire and foster in the American merchant an appreciation for color and design in merchandising. Though somewhat dated in appearance, the book still offers sound principles, and their application today has probably gone beyond the author's expectations. There are interesting chapters like "Designing for Children," "Color and Cosmetics," and "Color and Line in Dress for Men" that are seldom covered in the standard text. This is a book of principles and criticism (no studio problems) and worth looking at to appreciate the direction design has taken over the past forty years. Bibliography and index.

Chatt, Orville. Design Is Where You Find It. Ames, Iowa: Iowa State University Press, 1972.

Pp. 124.

739.27 It is the author's thesis that sources for C495d design exist everywhere if one will really observe what he sees. Although there is a brief consideration of the elements and principles of design, the book primarily attempts to give the reader a greater understanding of design by showing finished jewelry and their idea sources. out the book large black and white illustrations of finished pieces of jewelry are accompanied by a picture of the organic or man-made material which was the source of the design. Written text is kept at a minimum, but a careful study of the illustrations will help the student to understand the design process. Bibliography.

Cheney, Sheldon and Cheney, Martha Chandler. Art and the Machine; an Account of Industrial Design in 20th Century America. New York: Whittlesey House, McGraw-Hill, 1936.

Pp. xviii + 307.

745

C518a

Consumer dissatisfaction with the drab and stereotyped appearance of useful commodities of all kinds inspired the activities which yielded industrial design. Today the consumer is intensely conscious that there is a new machineage style, but he is often bewildered as to the laws governing its expression. It is the purpose of this book to create consumer awareness of what industrial design values are. Written in 1936, the book is extremely interesting historically and still valuable as the primer of industrial art principles. The illustrations, although

reminiscent of a particular era, nonetheless illustrates that good design is timeless. Index and annotated bibliography.

Croy, Peter. <u>Graphic Design and Reproductive Techniques</u>. New York: Hastings House, Publishers, 1968. Pp. 282.

This book attempts to give an answer to all questions on the technical aspects and practical problems of graphic design. A survey is given of the work of art directors, graphic designers commercial artists, illustrators, photographers, typographers, editors, printers, compositors, colour-analysts, and draughtsmen. This book will be useful as a reference or student textbook for would-be designers, draughtsmen, and photographers. A careful study of this book should enable the graphic designer to be better able to select the right solution to his printing problem and communicate his ideas to those who take on the job. Black and white illustrations and index.

Dair, Carl. Design with Type. Toronto: University of Toronto Press, 1967.

Pp. vi + 162:

The use of written or printed symbols as a 655.25 D134d basic element of design is not a discovery of our It reaches back into the dawn of civiliza-The invention of movable type simply tion. provided the means, denied to the ancients, of reproducing the original work and thereby widening the public who would see and read it. With the labor of writing eased by mechanical devices, it is unfortunate that greater thought has not gone into the design of printing. This, then, is a book about typography or the study of the appearance of type-set matter or how to create a beautifully printed page. The contents cover such topics as the nature of type, the character of type face, its arrangement, contrast, style, use of space, integration of design concept, and mechanics of typography for publishing. The book itself is a beautiful example of the application of all the principles it discusses. Bibliography.

Doblin, Jay. One Hundred Great Product Designs. New York: Van Nostrand Reinhold Co., 1970. Pp. 128.

745.2 Product design is the combination of engi-D6330 neering and styling, and good product design results when the utilitarian, social, and aesthetic factors of a product are all carefully managed. In this book members of the faculty of the Illinois Institute of Technology have selected 100 great product designs made between 1742 (the Franklin stove) and 1965 (Bell Trimline telephone). The products selected are all mass produced items designed, tooled, manufactured, and distributed in anticipation of sale. Each product is illustrated in a photograph that best displays the product's aesthetic qualities. The concise text accompanying each picture considers the historical background of the product and the factors that have made it a successful piece of industrial design. Index.

Downer, Marion. <u>Discovering Design</u>. New York: Lothrop, Lee, and <u>Shepard Co.</u>, 1947. Pp. 104.

In this thin, simple, easy-to-understand book the author teaches the principles of design through the discovery of design in nature. Large black-and-white photographs are accompanied by sparse text. The topics include: seeing design, symmetry, geometric design, balance, line, rhythm, all-over design, repeated design, functional design, abstract design, and design in painting. This is an excellent book for introducing design to students at any level but is especially recommended for the elementary grades.

Downer, Marion. The Story of Design. New York: Lothrop, Lee, and Shepard, 1963.
Pp. 216.

745.44 A brief history of design through the ages
D748s beginning in Egypt and Greece through the Orient,
to Europe and America. The text is concise and
the large black-and-white illustrations representative. This is a history of design that would be
particularly useful to the secondary school
teacher. Bibliography.

Dreyfuss, Henry. <u>Designing for People</u>. New York: Simon and Schuster, 1955.
Pp. 240.

One of the country's foremost industrial designers writes about his craft. He tells how he had approached and carried out his work assignments and reveals what research he does, and what he has discovered about public taste, and what he has learned about the average American. An entertaining, easy-to-read "inside story" of the world of industrial design.

Evans, Helen Maris. Man the Designer. New York: Macmillan, 1973. Pp. xii + 390.

745.4 This is an up-to-date book in every aspect--E92m clean, neat, layout, modern typographic design, sharp illustrations, and well-written, interesting text. The usual chapters on aesthetics, elements of design, and principles are here, but in addition are chapters on designing with organic and inorganic materials, environmental design, designs from other nations, and the creative person. Lavishly filled with photographic illustrations exemplifying all that is discussed in the text, it is a basic design reference book. This is a book of theory; studio problems are omitted. Bibliography, glossary, and index.

Feldsted, Carl J. <u>Design Fundamentals</u>. 3rd ed. New York: Pitman Publishing Corporation, 1962. Pp. 164.

745.4 The purpose of this book is to lead the F312d student by very simple steps to an understanding of Ed 3 visual design whether it be pattern design, advertising design, or pictorial design. Problems are set forth in sequential order from simple to complex with illustrations for every step to help the student learn by doing. It is divided into four main sections. The first gives an illustrated explanation of the fundamentals of design and a series of three-hour lessons planned to develop mastery of the principles of design. following three sections are concerned with specialized areas and explain the important features of each. The black-and-white and colored illustrations in the lesson section are the work of first-year college students. Index.

Ferebee, Ann. A History of Design from the Victorian Era to the Present. New York: Van Nostrand Reinhold Co., 1970.
Pp. 128.

745.444 F349h

This book presents a visual record of the artifacts of the first industrial society. It records the chief characteristics of Victorian design, Art Nouveau, and modern design. The author believes that with the death of Corbusier, Mies van der Rohe, and Wright, modern design as we have known it slipped into the past. With the introduction of new energy sources, satellite communication, and computer controlled information networks, we are now embarking on a second industrial age and the articulation of a new aesthetic. He feels that the designers of the emerging culture will be less concerned with objects per se and more concerned with process and values.

In addition to presenting much that has not been systematically catalogued before, the main purpose of the book is to provide an historical framework for a more responsible design esthetic. Black-and-white illustrations are used throughout to provide examples of the subject matter of the text. Index.

Fowler, Herbert Atherton. Modern Creative Design and Its Application. Ann Arbor, Michigan: G. Wahr, 1933. Pp. xviii + 270.

745 F786m

An old book and probably out of print, but one that still has some good things to offer, particularly the treatment of the principles of design, the theory of color, and the relationship of nature and design. The author best sums up the book in the foreward when he writes: "Based on experience gained by working with students of design and others interested in the appreciation of good design, this book seeks to stimulate the reader's mind by suggesting methods of creative thought. Set rules or 'recipes' are avoided or discouraged. The principles of design as set forth in these chapters are so all-embracing that they may be stressed and used in many different ways until the student finally succeeds in making them a part of his subconscious mind where they may be drawn upon when needed in the solution of any problem in design." Index.

Garland, Ken. <u>Graphics Handbook</u>. London: Studio Vista; New York: Reinhold Publishing Corporation, 1966. Pp. 96.

G233g A small book but filled with basic information for the graphic designer. An interesting, readable text and imaginative layout provide maximum basic information within limited space. Contents include: useful concepts, organizing information, photography, printing, processing for print, the designer's tools, and general information. Bibliography.

Graves, Maitland E. The Art of Color and Design. 2nd ed. New York: McGraw-Hill, 1951. Pp. xvi + 439.

745 A basic textbook in design. Its purpose is G776a an orderly, clear, and simple analysis of the 1951 elements and principles upon which all visual art is built. The textual content is comprehensive and extremely readable. Many black-and-white illustrations are used to exemplify the problems under consideration. The book is divided into three sections: (1) Elements of Design, (2) Principles, and (3) Analysis of the Design Elements. Questions and exercises make this a useful reference for teachers. Interesting features include two diagnostic tests--a "Judgment Test" and "The Taste Test," which the student takes before study to test his innate sense of good design. Glossary and index.

Grillo, Paul Jacques. What Is Design? Chicago: P. Theobald, 1960. Pp. 238.

This book is addressed to the public, abused day in and day out by all the bad design they have to put up with and suffer from, particularly from those who design their surroundings, not only homes, offices, and churches, but cars, refrigerators and stoves, and even the cup, the spoon, and the hammer. The author presents some interesting and fresh ideas about the design of these common objects that ought to challenge the consumer to react against those who are all absorbed with form and have neglected to remember function.

Guyler, Vivian Varney. <u>Design in Nature</u>. Worcester, Mass.: Art Resource Publications, 1970. Pp. 124.

779.0924 Nature can play an important role in the G986d teaching of art and the preparation of young

artists. It can help them develop an awareness of the visual properties of shape, line, color, value, texture, and space. It is often through nature that our earliest ideas and understanding of these elements are acquired. This book has been planned to serve as source material for both teachers and students of art. A series of photographs has been selected to define and examine the visual elements as they may be observed in nature. A chapter has been devoted to each of the elements: shape, line, texture, value, and space. Each has been examined for its own inherent qualities as well as for its relationship to the other elements. The teacher will see many opportunities to expand upon certain aspects of design which are illustrated in the photographs as he plans activities and projects throughout the year. A sparse text has been provided as a point of departure, but the truly creative, poetic soul will probably write his own text.

- Hamilton, Edward A. Graphic Design for the Computer Age. New York: Van Nostrand Reinhold Co., 1970. Pp. 192.
- 760 Anyone who initiates or conceives design as H217g visual communication should find this book useful. It is particularly aimed at those who must think or plan visually in their work: editors, writers, art directors, architects, architects, TV producers, public relations executives, scientists, technicians, business administrators, and students in many fields of endeavor. While much of the content is based on the author's experience in directing design for the print media, its principles can be applied to all media, including computer graphics. This book should provide guidelines for richer variety and higher standards in the creation of visual materials. Glossary of computer terminology and index.
- Henrion, F. H. K. and Parkin, Alan. <u>Design Coordination</u> and Corporate Image. New York: Reinhold Publishing Corporation, 1967.
 Pp. 208.
- 745.2 This is the first authoritative book on an important new subject. Design coordination is the concerted and related planning of all activities of the corporation which can be seen: buildings, products, packaging, transport, stationery,

publications, signs, uniforms, and all kinds of promotions. The public image of a corporation--whether industrial or commercial, government department, public service, national or international institution--depends to a considerable degree on the visual impact which it implants by its design items. Twenty-seven examples of successful design coordination are presented in this book. The designers represented all have international reputations. Profusely illustrated with crisp, clean, uncluttered page layouts. A minimum of copy provides the rationale behind each corporate design concept. Index of designers.

Jones, Owen. The Grammar of Ornament. New York: Van Nostrand Reinhold Co., 1972.
Pp. 157.

745.4 j78g Oversize

First published in 1856, this is a classic source book for the study of historical ornament design. The author has selected a few of the most prominent types in certain styles that are closely related to each other, and in which certain general laws appear to operate independently of the individual peculiarities of each. Brought into immediate juxtaposition are the many forms of beauty which every style of ornament presents. has been the desire of the author to arrest the tendency to copy from the past those forms of beauty which have already been copied too frequently. Rather he attempts to help the reader to understand the underlying laws and ideas that lead to the development of new forms of ornamental The past is to be considered a guide to the future. Illustrated in color and black and white.

Justema, William. The Pleasures of Pattern. New York:
Reinhold Book Corporation, 1968.
Pp. 240.

745.4 j96p "The essence of a pattern is, quite obviously, repetition. In the minds of many people that is all there is to it. They see a spot, a line, a shape, or an image repeated over and over and assume the result is a pattern. Well, sometimes it is, and sometimes it is not. Quasi patterns abound, and we would do well to recognize them from the start. The special pleasures of pattern are not to be experienced in poor substitutes or loose approximations, attractive as some

of them are." Thus the author introduces the reader to a book filled with pattern. The three parts of the book treat of (1) Pattern in general and in particular, (2) Pattern making, and (3) The aspects of pattern. The book is profusely illustrated with black and white photographs of patterns too varied to enumerate. Annotated bibliography, list of illustrations, and index.

Kamekura, Yusaku, ed. Paul Rand, His Work from 1946 to 1958. New York: Knopf, 1959. Pp. 132.

741.6 Paul Rand is a graphic designer whose work is R187k characterized by simple forms and fresh color. his introduction the editor tells us that "Throughout the best of his work he (Rand) succeeds in presenting an idea, a message, with a minimum of pictorial elements and, characteristically, without loss of charm. There are elegances, humor, and inventiveness in his designs, but these qualities he shares with many other artists. What makes him a master is his thriftiness -- a quality very distinct from poverty and barrenness." Herein the principles of design are presented as examples of the designer's work: posters, billboards, newspaper and magazine advertisements, package design, book jacket designs, covers, and illustrations. These are enjoyable to study first as art and only secondly as a practical solution to an advertising agency's problem. Biographical notes and bibliography.

Kaufmann, Edgar, Jr. What Is Modern Design? New York:
Museum of Modern Art, 1950.
Pp. 32.

745.43 This is Monograph 3 in the Museum's "Intro-N532w ductory Series to the Modern Arts." People have pride and interest in the things they live with and which, often as not, they have chosen themselves. Modern designers have often created their best designs for home furnishings, which include a diversity of products from textiles to cooking pots. Hence all of the illustrations are taken from the field of home products. In five pages of text, the precepts of good modern design are succinctly outlined and are meant to be tested against each object that follows in the twenty-two pages of photographed illustrations. In this way the ideas acquire more real meaning, and the

objects, so different from each other outwardly, all will be seen to belong to the tradition of modern design. Once the text and pictures are related, the reader will see to what extent modern design is a great achievement in our age. Bibliography.

- Knapp, Harriet E. Design Approach to Crafts: A Philosophy of Appreciation. Springfield, Mass.: Holden Publishing Co., 1945.
 Pp. 138.
- 745.4 Too often crafts are approached merely as K67d techniques. The assumption is that originality and quality will take care of themselves. Perhaps they should, but they seldom do. In much the same way design is frequently taught without regard for the crafts. It is this author's belief that designs and crafts are one. There can be no design except through expression in some kind of material. There can be no craft worth doing without design. This book was written to bridge the gap that might exist between the two. It is divided into two parts: (1) Fundamentals of Design Theory, and (2) Craft Experiences. Illustrations are photographs and drawings. Bibliography.
- Lindbeck, John Robert. <u>Designing: Today's Manufactured</u>
 Products. 2nd ed. Bloomington, Illinois:
 McKnight & McKnight Publishing Co., 1972.
 Pp. xiii + 400.
- 745.4 This book was written to contribute to the L742d preparation of designers and those who teach 1972 design. It moves from an overview of design history into a consideration of the methodology employed to design products. A treatment of related visual organization theory is followed by a consideration of design techniques and application to specific materials. A section on design research resources is expanded to include not only the usual bibliography but catalogs, periodicals (domestic and foreign), films, filmstrips, slides, loop films, and a list of design centers. Illustrated in black and white. Index.
- McKim, Robert H. Experiences in Visual Thinking. Monterey, California: Brooks/Cole Publishing Co., 1972. Pp. xi + 171.
- 153.42 Students' difficulty in art classes is often due to underdeveloped powers of visual perception. Some may claim to have no imagination while others

reveal difficulty in departing from stereotyped ideas. Some are blocked in their generation of new ideas. Help in these difficulties lies in learning the art of visual thinking--learning to invigorate and direct the inner sensory imagery that is the active model for idea-sketching. the title suggests, this book approaches the subject of visual thinking by the avenue of experience. They are the reader's experiences. He must test the experiences suggested in the book. Although the author believes that skill in visual thinking is available and vitally important to virtually everyone, only the reader can validate anything so fundamental to his being, so powerful in its capacity to change his world of ideas and things. The author provides an initial stimulus, the rest is up to the reader. Illustrated with photographs and sketches. Index.

Martin, Leslie C. <u>Design Graphics</u>. New York: Macmillan, 1962.

Pp. xi + 274.

744.422 Graphics, as the author uses the word, is the M379d process of representation through which a designer's ideas are developed, explained to others, and finally translated into information from which the finished objects are produced. These ideas should be expressed as simply, clearly, and attractively as it is possible to present This requires that the designer and draftsman be able to: (1) choose the type of drawing best suited to the purpose, (2) do effective layout work, (3) make neat, clean-cut, expressive drawings, and (4) add tones, textures, colors, and values when these are appropriate to the use of the drawings. In order to do these things expertly, it is necessary for the designer and draftsman to acquire knowledge and skills in graphical representation. It is to this goal that this book is directed. Of particular value are the five final chapters that consider rendering techniques. Index.

Moseley, Spencer; Johnson, Pauline; and Koenig, Hazel.

<u>Crafts Design</u>. Belmont, California: Wadsworth

<u>Publishing Co.</u>, 1962.

<u>Pp. 438.</u>

745.5 This book has been planned to give an appre-M898c ciation of the crafts. Over 1,000 illustrations with simplified and detailed, step-by-step instructions show the reader the processes used in decorated papers, paper sculpture, papier-mache, bookbinding, weaving, decorative fabrics, leather, pottery, mosaics, and enameling. Each craft is introduced with detailed discussions of color, line, shape, and texture. Knowledge of these fundamentals of design will provide the reader with new and dramatic artistic possibilities for crafts design. An additional feature is the inclusion of a large number of outstanding historical examples of art from other cultures. The authors, all accomplished and well-known artists, are members of the Fine Arts Faculty of the University of Washington. Bibliography.

Nelson, George. Problems of Design. New York: Whitney Publications, 1957.
Pp. ix + 205.

745.43 N426p This is not a book of studio design problem but rather a book about the problems of good design—a collection of essays on a wide variety of topics, a book of aesthetic theory and criticism by one of America's leading industrial designers. The six main divisions of the book treat of: (1) Problems of Design, (2) Art, (3) Architecture, (4) Houses, (5) Planning, and (6) Interiors. Within this framework highly readable and entertaining text covers a plethora of interesting topics with such intriguing titles such as "Palaces are Amoral," "A Kleenex Culture," "Down with Housekeeping," and "Why Cities Decay." Black-and-white illustrations are included as a point of reference for the theory.

Neumann, Eckhard. Functional Graphic Design in the 20's. New York: Reinhold Publishing Corporation, 1967. Pp. 96.

760.09 N492f Advertisements in daily papers or magazines, pamphlets, and posters are not works of art but designed communication media, even when they are designed by artists, as they were in the artistic revival of the 1920s. At that time the economic situation in Europe forced painters to handle the problems of advertising design. In Germany especially, various avant-garde artists had their own graphic studios or executed designs for industry and public institutions in addition to their independent work and teaching.

In the work of the twenties, many sources are found for the visual language of the present. The purpose of this book is to present the experiments, inventions, and methods developed then as a coherent whole and to show how the creative impulses continue to live. It is also a tribute to the pioneers who formulated within a short decade a completely new visual language. Illustrations in color and black and white.

Osburn, Burl Neff. Constructive Design. Milwaukee: Bruce Publishing Co., 1948.

Pp. ix + 94.

745.4 This book was written for the teacher of 081c industrial arts. It is intended to train the student to apply intelligence to his work. It is based on the assumption that making things is not enough in itself, valuable as that may be. craftsman is to get the fullest measure of satisfaction and value from what he makes, he must also be its designer. If his work is badly designed, his work is in vain, regardless of the technical skill employed in its making. From the teacher's point of view, a very helpful section of the book is the one giving problems in cast metal, wood, ceramics, leather, textiles, graphic arts, and plastics. Illustrated in black line drawings. Bibliography.

Proctor, Richard M. The Principles of Pattern for Craftsmen and Designers. New York: Van Nostrand Reinhold, 1969. Pp. 135.

A wealth of material has been written on design, but little of it comes to grips with the principles of pattern structure. Authors bend over backwards to explain the design of beautiful "units," but rarely do they explain the design of beautiful "yardage"--the repetition of units, the creation of pattern. This book sets forth to provide such an explanation, using primarily visual means to illustrate clearly the specific principles of pattern construction, and presenting historical and contemporary design resource material.

The organization of the book is simple and direct: the Introduction provides general information and presents the basic networks on which

repeat patterns can be constructed. A brief vocabulary follows, then each network is dealt with in turn. In the concluding chapter, the visual range of a single motif--the Romanesque arch form--is explored. A selected bibliography is provided for the reader who wishes to research the subject of pattern further.

Prohaska, Ray. A Basic Course in Design. New York: Van Nostrand Reinhold Co., 1971.
Pp. 95.

702.8 The authors present to the novice artist a P966h carefully planned "crash" course, designed to arouse interest in seeing and feeling on the Oversize practicing artist's level. Originally designed for a two-semester program, the author-teacher offers the student his experience of over fifty years of professional involvement in the practice painting, drawing, and illustration. Chapters are illustrated with drawings and paintings done by his students and with occasional works by noted painters, sculptors, and graphic artists. The book was designed for the purpose of establishing a rapport between the student and the professional and of further identifying the student's problems by means of examples of successful experiments. The teaching method presented here is the result of carefully planned exercises and procedures. Heavy emphasis is placed on the understanding of form, spatial concepts, and intuitive response to ideas. Glossary of art terms.

Rand, Paul. Thoughts on Design. Reflexions sur l'art graphique. Reflexiones sobre el art grafico.

2nd ed. New York: Wittenborn, Schultz, 1951.

Pp. 160.

Paul Rand has for some few years been a 659.1324 R187t severe critic of the average level in advertising Ed 2 presentation and design. He has proved the value of his convictions not by words or theories but by actual work and courage. He knows type, he knows the value of space, he is in communication with the public in ways that are basic. Like all good designers, his respect for the public is one of cooperation. These "reflections" of Mr. Rand reveal his thought, and the examples of his work, a practice that is a composite pattern. not say one thing and do another nor do one thing and say another. His philosophy, largely

influenced by John Dewey and Roger Fry, follows right through, whether it is a book, a cover, or an advertisement. His conceptions guide his feelings, and in turn his feelings humanize his conceptions.

This book attempts, then, to arrange in some logical order certain principles governing contemporary advertising design. The text is in English, French, and Spanish.

Randall, Reino and Haines, Edward C. <u>Design in Three</u>

<u>Dimensions</u>. Worcester, Mass.: <u>Davis Publications</u>,

1965.

Pp. 66.

745.4 R189d

The purpose of this brief manual is to reawaken the interest of students at all levels in the world of three dimensions. One certain way to do this is to turn to the actual experience of creating with materials. This book purports to help in the search for ideas and understanding. It explains basic principles of design and then relates the principles to functional and artistic problems. The book may also be used as a design source book since it provides information on materials and tools. The illustrations from various artists and periods of history will be helpful for the ideas they suggest. An important feature of the book is a chart of suggestions for teachers outlining the aims, materials, and problems appropriate at the primary, elementary, junior high, and senior high school levels. Bibliography.

Read, Sir Herbert Edward. Art and Industry: The Principles of Industrial Design. 1st. Am. ed. New York:
Horizon Press, 1954.
Pp. xvi + 239.

745.2 R283a Out of the Industrial Revolution with its mass production of uniform objects, two questions arose: (1) whether objects of machine production can possess the essential qualities of art and (2) if so, what is to become of the artist who is displaced by the machine? Sir Herbert Read addresses himself to this problem of relating art to industry. In Part I he considers the problem in its historical and theoretical aspects. Part II treats of "the general aspect" and the "organic and inorganic material aspects." Part III is a

treatise on "Color and Ornament." Part IV brings us to the ultimate answer--"Art Education in the Industrial Age." This is a book of practical aesthetics for everyone concerned with the appearance of things man uses in his daily life. Well-chosen black and white photographs provide characteristic examples of the kind of product discussed in the text. Originally published in 1934 and repeatedly reprinted and revised, this is the third (revised) English edition. Index.

Röttger, Ernst. Creative Paper Design. New York: Reinhold Publishing Corporation, 1961. Pp. 95.

736.9 R851c

All too often adolescents and adults in art classes display a reluctance to exercise their natural creative urges, to explore materials, and discover their own relationship to those materials. They have seen too many examples of what art is supposed to be and set themselves too high a standard. To regain their primal creative faculties they must rid themselves of all established concepts and standards (as far as that is possible) and try to re-discover the delight in tools and materials, in discovery and inventive-This book, one in a series dedicated to "Creative Play," attempts to help teacher and student towards this end. It is the province of this particular volume to examine the origin and metamorphosis of the design element of shape while exploring the techniques of working with paper. The author believes that the natural urge to play can be an important factor in developing creativity when that play follows a pattern and is more concerned with discovering new forms of expression than in achieving utilitarian ends.

The creative problems proposed in these pages follow the format of: (1) defining the task, (2) explaining the rules, and (3) providing examples. Once the task is understood and the rules applied, creativity takes over and the result can be manifested in an almost infinite number of ways. Believing that pictures can tell far more than words, the book is profusely illustrated with black-and-white photographs and drawings. Words and explanations have been kept to the absolute minimum. However, the authors caution that the pictures are to be a source of inspiration and not limitation.

Scott, Robert Gillam. <u>Design Fundamentals</u>. New York: McGraw-Hill, 1951.

Pp. ix + 199.

In his preface the author observes how the survey word design has changed its meaning from its aspect of pattern (noun) to an activity (verb) that pervades every phase of contemporary life. The rise of the profession of industrial designer is an indication of the extent to which we have all become design conscious. Design is not recognized as a fundamental human discipline, a basic technique of our civilization. The study of design is basic to architecture, sculpture, ceramics, and painting.

This book grew out of a basic design course at Tulane University. It is primarily a workbook. The thirteen chapters of text accompanied by problems and reading lists provide the serious student with an opportunity to practice designing and in the process to find out things he needs to know about visual organization. The problems are interesting and challenging. The problems on color are particularly comprehensive. The layout is such that the illustrations are integrated with the text. Taken with the section headings, they provide a visual outline of the entire contents. Bibliography at the end of each chapter and index.

Smith, Janet Katherine. A Manual of Design. New York: Reinhold, 1950. Pp. 193.

745.4 The first section of the book concerns itself S651m with a general discussion about art, design, the artist, craftsman and machine, and the essentials of design theory. The next three sections -- the major part of the book--present studio problems exploring the art elements, applying the art principles, and practicing design application. The problems are graded in difficulty and intro-duce a number of different mediums and tools to the student. They begin with elementary concepts and proceed towards the more complex. They are organized to serve as a series of introductions to the materials and ways of working which professional designers use or which are characteristic of various industrial processes or techniques. Excellent line drawings and photographs exemplify the text. Bibliography, glossary, and index.

Snelgrove, Isabel Pearl. The Practice and Appreciation of Design. 2nd ed. rev. Minneapolis: Burgess Publishing Co., 1947. Pp. 150.

745.4 The 150 pages of this book contain the most condensed statement possible of the principles of design and color, the analysis of repeated patterns, and design in lettering and fashion drawing. The basic principles of design are clearly defined and their application explained. Methods are given for selecting colors for 169 color schemes or harmonies. The purpose of the book is twofold: (1) a guide in practice, assisting students to create designs intelligently and with freedom of expression and (2) an aid to appreciation. All illustrations are student work. Spiral bound. Bibliography.

Sutnar, Ladislav. Package Design: The Force of Visual Selling. New York: Arts, Inc., 1953.

659.12 This book examines different aspects of S967p package design, both domestic and foreign, typical Overof various groups of products. These range from a size common product wrapped in a transparent film bag identified by a simple label to a container designed for a luxury fragrance. From the usual to the unusual, it presents readers with examples of design intended for different sales objectives, aimed at various markets -- some designed for old established methods of selling, others designed for the newer mass selling techniques of supermarkets and for other inroads of self-service operations. Illustrated in black and white photo-Index to illustrations. graphs.

Teague, Walter Darwin. Design This Day: The Technique of Order in the Machine Age. New York: Harcourt, Brace and Company, 1940.

Pp. xvii + 291.

745 What the author has done is outline with T253d reasonable clarity the technique that must be applied in the solving of any problem of design, whether it is a new automobile or a new city or new environment. If this technique is basically sound for one, it will be sound for the others. Like any technique, it does not guarantee results. The results depend on the skill of the men who use it. But years of struggle with practical design

problems of many kinds has convinced the author that these are the basic principles which must guide all constructive work.

This book is a discussion of the technique to be employed--the standards and methods to be used--in the physical process of rebuilding our world. It is a handbook of design discussed in terms of our machine age. Its remarkably lucid chapters on unity, simplicity, proportion, symmetry, style, and related aspects of design make it an invaluable work for those who value a sound critical basis for artistic judgment.

The author is a pioneer in the field of industrial design. As a consultant for many of America's leading industries, he has been responsible for the design of a tremendously varied group of products which we all see and use every day--National Cash Registers, Eastman Kodaks, Texaco Service Stations, Steuben crystal, and Westinghouse products. He is a profound student of modern construction and production methods, with special interest in the field of housing and community planning. Index.

Thompson, Samuel Winfield. Basic Layout Design: A Pattern for Understanding the Basic Motifs in Design and How to Apply Them to Graphic Art Problems. New York: Studio Publications in Association with Crowell, 1950.

Pp. 79.

A thin book that wastes no words in setting down the fundamentals of layout. Its four chapters are titled "Basic Design Motifs," "The Layout Devices," "Typography," and "Pictures." This is a kind of primer for any job that requires the arrangement of several elements on a two-dimensional surface, particularly those related to the printing craft. Black-and-white illustrations.

Tucker, Allen. Design and the Idea. Washington: The American Federation of Arts, 1939.

Pp. 40.

A small unpretentious book of essays. As described in the preface, this book purports to be the printed essence of the philosophy, the esthetic beliefs, the religion of a distinguished painter who for half a century was guided by the

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- Rand, Paul. Thoughts on Design. Reflexions sur l'art graphique. Reflexiones sobre el art grafico. 2nd ed. New York: Wittenborn, Schultz, 1951.
- Randall, Reino and Haines, Edward C. <u>Design in Three</u>
 <u>Dimensions</u>. Worcester, Mass.: <u>Davis Publications</u>,

 1965.
- Read, Sir Herbert Edward. Art and Industry: The Principles of Industrial Design. 1st Am. ed. New York: Horizon Press, 1954.
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