THE DEVELOPMENT OF AN INTEGRATED ART ACTIVITIES PROGRAM IN LACY CONSOLIDATED HIGH SCHOOL, CHRISTIAN COUNTY, KENTUCKY

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ACKNOWLEDGMENT

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We are submitting herewith a thesis written by Omer L. Gosnell entitled "The Development of an Integrated Art Activities Program In Lacy Consolidated High School, Christian County, Kentucky." We recommend that it be accepted for six quarter hours" credit in partial fulfillment of the requirements for the degree of Master of Arts with a major in education.

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tee

THE DEVELOPMENT OF AN INTEGRATED ART ACTIVITIES PROGRAM IN LACY CONSOLIDATED HIGH SCHOOL, CHRISTIAN COUNTY, KENTUCKY

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CHAPTER I

STATEMENT OF THE PROBLEM 24

Introduction

One of the greatest incentives of a student, whether young or old, is the desire to express himself by means of some sort of art work. Art has long been recognized as one important method of transmitting ideas. It is often possible to portray much more feeling and meaning by a picture, sketch, or handcraft than words could convey. Confusius, the ancient Chinese philosopher, declared that one picture was worth more than a thousand words. It is claimed that the experience involved in the process of artistic creation is in itself an educative one, and that art is therefore an essential instrument in any complete system of education.¹

A seemingly great problem facing the schools of today is the development of adequate programs in the regular courses of study in the high school curriculums whereby students will develop a continuing interest in the subject matter. To enrich the school program is the desire of every conscientious teacher.

In many elementary schools the arts are a part of the regular curriculum although not enjoying the same status as

Ldwin Ziegfield, <u>Education and Art</u>, (UNESCO Publications Center, New York, 1953), p. 25.

the academic subjects. To a much lesser degree, this is also true in the high school. For the past two years, Lacy consolidated School has provided an art program for the elementary students; however, the high school students have not had the opportunity to develop their artistic abilities through special courses in art.

Since general education in high school is primarily concerned with developing the student's potential for a rich and satisfying life both as an individual and as a member of a democratic society, it is necessary to provide for him as much material for learning as is possible. A means of providing him with such material is through art activities in the regular classroom. Art activities will promote a language of feeling as distinct from the language of thought, and will certainly enrich his cultural background; also, adequate oreative projects will help stimulate his desire for particlpation.

Purpose of the Study

The general purpose of this study was to develop in the Lacy Consolidated School, Christian County, Kentucky, an art activities program in grades nine through twelve, that will furnish basic material for guidance to the teacher. To accomplish this purpose, it was necessary to introduce the following specific purposes:

1. To determine appropriate methods and procedures to use in the courses of study in English, science, mathematics, and social studies in grades nine through twelve.

2. To determine the background of the study.

3. To establish and set forth a point of view or a philosophy of art education.

4. To determine and set forth objectives to be achieved through the programs in art activities.

5. To determine the content of the art activities pro-

6. To determine appropriate methods and procedures for art activities in the fields of science, English, mathematics, and social studies in grades nine through twelve.

7. To suggest other activities that may be carried out by the students. on and life peedo.

8. To determine the possible uses to which the programs will be put. dependent work, develop critical judgement, pro-

Basic Assumptions

The basic assumptions in this study were as follows:

1. There is a general agreement that art education in Public schools can make a valuable contribution toward the Cultural development of individuals.

2. Basic to the educational philosophy of art of our day

is the assumption that the aesthetic principle is deeply imbedded in man and that its presence contributes to his wellbeing.²

3. It is assumed that more consideration will be given to the general use pupils will make of the art that they are learning.

4. It is assumed that the high school student entering the ninth grade will already possess some of the fundamental desires for self-expression and appreciation in the arts.

5. The present urgent need is a program of art education which will provide for the needs of all the students of all the people including those with little or no special aptitude in the arts as well as the most gifted.

6. It is assumed that special attention should be given to self-expression and life needs.

7. Art education can provide encouragement for the student to do independent work, develop critical judgement, provide understanding guidance and assistance in self-evaluations, and responsibility.³

Importance of the Study 2 3 contest of the Study because all

²Arthur R. Young, (ed.), <u>This is Art Education</u> (Yearbook, National Art Education Association, State Teachers ^{College}, Kutztown, Pennsylvania, 1951), p. 8.

³Walter S. Monroe, (ed.), <u>Encyclopedia of Educational</u> <u>Research</u> (New York: The MacMillan Company, 1950), p. 66. students will participate in the courses covered and should profit by an enriched program in those areas. It is hoped that the study may be of practical value to other schools. The study may also be beneficial to curriculum builders in the fields of English, literature, mathematics, science, and social studies in high schools that do not have special art classes.

Related Studies

a progress for social studies. The article appears in the After carefully surveying the literature available in the field of art education it has been found that much reor all and All for Fun." A series of cartoons had been drawn search has been done in connection with the recognition of w her students. Also Beek stated in her article that "Ca the importance of the arts in the elementary grades, but for toping is just like writing. It's not just how you say the high school teacher there is a very limited amount of information available. Current magazines on art activities, "An approach to sculpture" by Hose Dooley such as "School Arts" and "Arts and Activities," contain some and in the Gilbary Fublic Schools; offered material for the material on the secondary level. From these two magazine mishes class, the students made andtopical structures out publications some of the content in this study has been oblaster of Pavis. This article appeared in the 1956 May tained, such as: "Finding Art in the Geometry Classroom," by Alice Scannell and Madeline Fridrich. 4 In this article, Miss resting with Plantics" by Jeacon Bragdon demonstrates Scannell and Miss Fridrich illustrated the principles of detechniques in the use of plastles. High school students Veloping much interest in the geometry class. The presence

⁴Alice Scannell and Madeline Fridrich, "Finding Art in The Geometry Classroom," <u>School Arts</u>, IV (March, 1956), p. 33.

of mobiles in the classroom, principally geometrical in shape, and the availability of "sticks for laying" furnished the students with the idea of making "Stick People." They first made some relatively simple people. "Stick Mobiles" hanging in the classroom served a decorative purpose and also assisted the student in becoming better acquainted with mathematics.

An article by Ruth M. Beck, Art Instructor, Westport High was designed for School, Kansas City, Missouri, was very helpful in developing Lengubley, a program for social studies. The article appeard in the welve. It included art activity programe in April, 1956 issue of Arts and Activities and was entitled "Fun for All and All for Fun." A series of cartoons had been drawn by her students. Miss Beck stated in her article that "Cartooning is just like writing. It's not just how you say it but whay you say "5 dling the data ware considered. Greenel

"An approach to sculpture" by Rosa Dooley, Supervisor of Art in the Chicago Public Schools, offered material for the science class. The students made anatomical structures out of plaster of Paris. This article appeared in the 1956 May issue of Arts and Activities. 6 a thesia. After surveying the

"Creating with Plastics" by Joseph Bragdon demonstrated new techniques in the use of plastics. High school students

ant edulation haing integrated into the regular courses

⁵Ruth M. Beck, "Fun for All and All for Fun," Arts and Activities, XXXIX (April, 1956), p. 16.

6 Rosa Dooley, "An Approach to Sculpture," Arts and Activities, XXXIX (May, 1956), p. 6.

from Stockton, California, showed some of its many possibilities. This article appeared in the October, 1955 issue of School Arts.⁷

Of material studied in planning this thesis, the above listed sources have been particularly helpful.

Scope of the Study

This study was designed for use in the Lacy Consolidated School, Christian County, Kentucky, in grades nine through twelve. It included art activity programs in the fields of science, English, mathematics, and social studies.

Sources of Data and Methods of Procedure

which to the writer in the first place.

After the overall problem had been determined, the methods of gathering and handling the data were considered. Careful sined to determine where the seterial could best be included reading was done in books on research as to the gathering of the best procedure for its inclusion. data and proper procedures as to its use. Many theses were 1 Satarials were obtained through the reading of books read which were on file in the library of Austin Peay State the library of Austin Peay State College, from the College, Clarksville, Tennessee for further understanding of a library, from art journals, and from those the proper procedure in writing a thesis. After surveying the roctors who had usen correlating art with cheir subjects list of materials and research available, it was found that there appeared to be very little research done in the field everation, it was determined that the organof art education being integrated into the regular courses could best be facilitated three of study, except in creative art as a special course. Therefore, the only available source to follow was the general allow and for fire and and star Entres

7Joseph Bragdon, "Creating With Plastics," <u>School Arts</u>, W (October, 1955), p. 15. procedures set forth for research workers.

Interviews were arranged with the teachers of Lacy Consolidated School about the possibilities of implementing the art activities programs in the various subjects, and the plan was enthusiastically accepted by them.

Further preparation for this study was the enrolling in courses of educational research, curriculum laboratory, and multi-sensory aids, in the Education Department of Austin Peay State College. Combined with this was previous art training obtained at Ringling School of Art, Sarasota, Florida. To add to this preparation was the experience of three and one half years of high school teaching which had suggested the problem to the writer in the first place.

After collection of data of art activities, many textbooks of the various fields of study in high school were examined to determine where the material could best be included and the best procedure for its inclusion.

Materials were obtained through the reading of books on art in the library of Austin Peay State College, from the author's own library, from art journals, and from those instructors who had been correlating art with their subjects in the county system.

After this preparation, it was determined that the organization of the material could best be facilitated through the divisions into programs and come under the heads of (1) Vitalizing the English Program through Art; (2) Social Studies Enriched through Art; (3) Finding Art in Mathematics; and (4) Science Comes to Life in Art.

Reporting of the Study

The study is presented as follows: Chapter II, Background of the Study; Chapter III, Philosophy of Art Education; Chapter IV, Art Programs in the Grades Nine through Twelve; and Chapter V, Implementing the Art Program in Lacy Consolidated School.

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CHAPTER II

BACKGROUND OF THE STUDY

Introduction

Three important factors are woven into the life of every community; the personality of its people, the geographic environment which nature has provided, and the social inheritance which people have invented or borrowed.¹

These are broad classifications of the myriad of specifics that constitute a given people in a specified place. The personality of the people, for one's use, must now be viewed as the citizenry as a whole with its varying facets, for it is from the differences that the personality evolves. Many influences enter into forming this generalized "community personality." Some of them can be favorably influenced by education. It appears that others may be stubbornly immutable. Many parts of this factor are influenced by the other two, the environment and the social inheritance. These factors need to be considered in giving the background of the Lacy Community and that part of Christian County, Kentucky. A community which is fortunate enough to have each factor to a high degree is almost certain of outstanding success.

Joseph Irvin Arnold, <u>Challenge to American Youth</u> (New York: Row, Peterson and Company, 1950), p. 31. Although each of the three factors is basic, each one of the factors may be modified, especially personality and grasp of social inheritance. In fact, two of the main ends of living together are to build desirable types of personality and understanding of the social inheritance.

An educator must try to discover what constitutes a wholesome and contributing personality on an individual basis. Upon this knowledge, a procedure must result that nurtures and maybe even plants affirmative personality traits.

The development of high type thought can assure high calibre actions. The search for truth and other beauty is well to initiate in any youth of any locale.

The student could develop high ideals, appreciation of soul-stirring music and acknowledgment of the loveliness of pure thoughts. They must be inspired to dream of better things than poverty. They need vision and well defined steps toward realization of visions.

The Lacy District is not outstanding in each of the aforementioned three factors; it does possess the eagerness to improve and adopt ideas that will help the community to progress.

Calmness of spirit and mind may well be part of our Wholesome personality. A calm person has control over his own being and a recognition of the relations of things and an Understanding of others. This attribute, too, might well be one that our educational procedures could strengthen. All these attributes grow in a curriculum which includes a continuing and well planned art program. Lacy District could adopt such a plan.

Personality of Its People

Personality is molded by environment. Just as stroke by stroke the statue takes form under the mallet of the sculptor, so day by day personality is molded by the influences which play upon it.² The home, the school, the church, the neighborhood, the radio, the press and countless other forces play upon the people and bend them in one direction or another, making them the kind of citizens they are.

Most of the inhabitants of the Lacy Community are small land owners and tenant farmers. Very few of the families enjoy the luxuries of the modern day such as running water in their homes, and there are still a number of farms that do not have electricity.

The community is made up of many small communities; Apex, Fearsville, Dogwood, Frog Hop, Bluff Springs, Pilot Rock, Antioc, Carl, Wild Cat Hollow, McKinney, Gum Grove, Fruit Hill, Cannon, Walker, Haddock, Ovil, New Idea, Shiloh, West, Poplar Grove, Concord and Ball Knob. Lacy Consolidated

2 Ibid.

school provides educational facilities for these small communities. The school plays an important part as a center of activities for the many small communities surrounding it. Lacy is located in the heart of these communities, in Fearsville. The only activities for the population are those that are provided for by the school. The community supports the school and the people take an active part in such organizations as the Parent Teachers' Association and many Homemaker clubs. Basketball and baseball are the two major sports in the school and community. The school facilitates the meetings of the various community organizations and acts as the community center.

As a whole, the Lacy district is made up of God fearing people. This community abounds in church organizations. The Baptists were the pioneers of religion in northern Christian County, and are still the strongest, numerically. At the present time there are four Methodist, eight Baptist, two Church of Christ, and one Morman Church in the northern section of Christian County serving this district.

As a means of communication, the community owns a private telephone exchange that is in operation during the daytime only. This exchange is located just across the highway from Lacy Consolidated School. This limited communication helps to explain the backwardness of the people of the community.

Three general stores thrive in the neighborhood. These stores handle merchandise all the way from shoes to groceries. Farmers gather at these "general" stores and chat about the farm and community problems as people did many years ago.

All the roads winding through the area are dirt or gravel with the exception of the highway from Hopkinsville to Greenville, Kentucky, which is a paved highway.

Most of the families are large and there are many early marriages in the community. The community does not place emphasis on luxury which would cause its members to limit the size of the family. It is a society which approves of the simple life and makes much of family ties, creating an atmosphere conducive to large families.

Geographic Environment

To the trained eye of the geologist, the soil and its underlying rocks forecast unerringly the character of the people who will in coming time occupy it. This law is plain and fixed.³ It has become the maxim in geology that a new country may have its outlines of history written when looked upon for the first time.⁴ The geological structure of a <u>country mathematical fixes the ourseite of its inholitents</u>, and snaps ³William Henry Perrin, (ed.), <u>Counties of Christian</u> and <u>Trigg</u> (Louisville, Kentucky: F. A. Battey Publishing Company, 1884), p. 23.

4 Ibid.

country partially fixes the pursuits of its inhabitants, and shapes the genius of its civilization. Where the soil and subjacent rocks are profuse in the bestowal of wealth, man is indolent and effeminate; where effort is required to live, he becomes enlightened and virtuous.⁵ From the above statement it may be determined that two subjects of supreme importance in the Lacy School area are those of soil and climate.

In this area the land rises about 578 feet above sea level. The school is located on route number 107, Hopkinsville, Kentucky, approximately eleven miles north on the Greenville, Kentucky road.

Christian County lies in what is termed, geologically, the "Fifth Formation," and is underlaid mostly by the cavernous limestone.⁶ The barrens of Kentucky are located on this formation; so called, not because the soil is unfertile, but because of the former absence of timber and numerous sinks. This region, which, when Christian County was settled, was said to be an open prairie, is now covered with forests and trees, of medium growth, which have since sprung up. Its land is found to be fairly productive. The northern part of the county is hilly and broken, and abounds in the finest of timbef,

⁵<u>Ibid</u>., p. 20. 6<u>Ibid</u>. coal and iron ores. Recently, oil wells have sprung up over the northernmost part of the county and it is said that it will probably be the richest oil producing section in Kentucky.

On the road from Hopkinsville to Greenville, one and one-half miles to two miles northeast of the former place, the carboniferous formation is quite plainly visible just before reaching the banks of Little River. The coal beds of Norther more, hatural repourses provide wealth to Christian are practically inexhaustible, while the iron, either tion and other comments under limonite, or brown hematite or pot ores exist in large quantto realize the value of its pature ities. The soil in the northern part of the county is poor on a repart oil production. In sections without nati the hills and ridges, often quite rocky, but exceedingly thaly to be too peo fertile in the bottoms. The hills are well adapted to the computity programs. This was the case up to this growth of the fine quality tobacco and all kinds of fruit. rticular time with the Lacy Community. In mettions where Here orchards and vineyards rarely fail of producing good crops. stural resources abound people are likely to be in a position Other farmscrops are corn, hay, pasture, and strawberries. to stand much for community projects. Northern Christian This section is still heavily timbered, and, though much of it ounty is fast becoming a wealthy district through it. has been cut away, there still remains sufficient for all practical purposes. The timber of the barrens consists of red oak, hickory, white oak, and other such kinds of hard woods as have grown up since the fires have been kept off by the settlement of the white race. These barrens were originally devoid of timber, and when first seen by the whites, presented all the "barrenness" without the monotony--which is broken by their rolling surface -- of the prairies of the West. Along the

streams grow forests of the very best quality of timber.

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Natural resources play an important part in education and other community activities. This is due in part to the fact that favorable surroundings such as level ground for athletics, bodies of water for water sports, forest for recreation, and mineral deposits for study during field trips provide a favorable environment for school activities. Furthermore, natural resources provide wealth to support education and other community undertakings. The Lacy Community is beginning to realize the value of its natural resources in its recent oil production. In sections without natural resources, people are likely to be too poor to finance many important community programs. This was the case up to this particular time with the Lacy Community. In sections where natural resources abound people are likely to be in a position to spend much for community projects. Northern Christian County is fast becoming a wealthy district through its discovered natural resources. 1945, Lacy School burned

Social Inheritance

No question is of such vital importance to the people as that of education. Nothing for which the state pays money yields so large a dividend upon the cost as the revenue expended upon the schools. Social inheritance can best be developed to higher standards through adequate and proper educational facilities. dent of 538 stationte. In the past

In the early development of Christian County there were many obstacles in the way of general education. The settlements were sparse, and money or other means of remunerating teachers, and housing facilities were scarce.

Prior to 1939 there were eighteen one and two-room schools in the northern district which now makes up the Lacy Consolidated School. Lacy School was first opened in September, 1939, and employed only six teachers; there were still five one-room school buildings occupied. At the present time there are only two-one-room schools left in this area.

A mass consolidation program was put into effect in 1939, and Lacy School now stands upon the land formerly used for farm land. The land was purchased in 1937 from Lee Rogers, a native of Northern Christian County. There were fifteen acres bought in the amount of \$300.00. It was purchased by means of community donations.

On Sunday morning, January 7, 1945, Lacy School burned and the students were left "homeless" for the rest of the year. Churches, barns and homes were used as improvised classrooms until the new school building was completed. In the fall of 1946 the doors of the new school building were opened to an enrollment of approximately 330 pupils. In 1956,

the school had an enrollment of 538 students. In the past four years the enrollment has been relatively stable. Ind too This school provides for various academic subjects; chemistry, history, agriculture, English, science, biology, geography, mathematics, algebra, trigonometry, geometry, chorus, home economics, commerce, literature, dramatics, and speech. In 1956 drivers training was added to the curriculum. The courses are still very limited, and many students get disinterested at an early age. Approximately forty per cent drop out of school before they graduate from high school. Too many parents in the school district still feel that their children only need an eighth grade education and will not Summary enforce their attendance. Most of those students that drop he purpose of this chapter was to establish the backout of school either marry at an early age or start fullground of the study. In so doing, three major topics were time work on the farm. chosen: personality of the Lacy community people, the

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The percentage of drop-outs makes it even more imperative percentice environment of the community, and the social that the grade school include as much of our American heriinteritance of the community. tage as is possible.

An educator wants both to help a student become attuned to his local environment and to open new horizons for him. An art program can, through vision and planning, make vivid the beauties of both present surroundings and our past heritage.

It can make the locale more meaningful in light of the

past. It can open the imagination into creative work that causes an inner joy in a people who might otherwise find too much drabness in life.

As social inheritance embraces all that the human race has achieved during its long stay on the earth. Each generation owes a debt to those that have gone before and has an obligation to those that are to follow. In the Lacy School district the challenge lies in recognizing the vast inheritance of social experience, and in adapting it to the needs of the present day so that the lives of the children will be enriched.

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The purpose of this chapter was to establish the background of the study. In so doing, three major topics were chosen: personality of the Lacy community people, the geographic environment of the community, and the social inheritance of the community.

Aphares of human interest; and the determination of artistic Standards of value and bases of criticiss, exhectably the determination of the significance and prepar application of Such terms on "breaks," " Juliness," "sublicity," and "grace-

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CHAPTER III

PHILOSOPHY OF ART EDUCATION

Introduction

There is present in each person a compelling urge to express, in drawing or art of some kind, what he sees, what he hears and what he thinks. The caveman had this urge and left his art scrawled or chiseled on the walls of the caveern which he called his home. Down through the ages others have had this same compelling urge, and each era has left its record in picture, sculpture, or architecture.

Nearly all of the great philosophers, from Plato and Aristotle on, have devoted attention to the function and value of art and the analysis of the art experience.¹ Two problems in particular have occupied those who have sought philosophical understanding of art: The determination of the nature of the impulse to art creation and enjoyment, with a view to distinguishing artistic activity from other spheres of human interest; and the determination of artistic standards of value and bases of criticism, expecially the determination of the significance and proper application of such terms as "beauty," "ugliness," "sublimity," and "grace-

William T. Couch, (ed.), <u>Collier's Encyclopedia</u> (New York: Crowell-Collier Publishing Company, 1953), II, 286.

Theory is closely interwoven with practice. Methods, media, and techniques are employed as means not only of enriching the student's personality, but also of developing some concept of art in the student. They are never considered as ends in themselves. Sculpture, for instance, is used to develop an understanding of form; and etching, a feeling for line.

Definition of Art

The word "Art" as it is used today has so many different meanings that it is almost impossible to arrive at any adequate definition. If one were to ask the question, "What is art?" of various groups of people within his circle of friends and acquaintances, he would probably receive as many different definitions as the number of people asked, and probably most of them would identify it with certain "skills" and "techniques," or certain kinds of products.

Thomas Munro has stated that the only correct short answer to the question is that art is many different things, a name applied to many different kinds of human products and activities.³ In his study of the meanings of art, through

²Ibid., p. 286.

3Thomas Munro, The Arts and Their Interrelations (New York: The Liberal Arts Press, 1949), p. 107.

the examination of dictionary definitions and the definitions of individual writers, he distinguishes twenty-two different meanings of "art."

Many writers attempting to define "art" choose to consider it in its broadest form as a way of living. Art is behavior -- art is a way of doing. To make art the possession of all people it must be thought of as movement, or as behavior. Calling art a way of doing places it in the category of behavior.

Many educators prefer to take a narrower consideration of the definition of "art" and relate it directly to its function in education.

Leon L. Winslow states in his book Art in Elementary Education:

"Art" as a school subject may be defined briefly as an organized body of educational experiences dealing with the meeting of human needs as efficiently as possible through the use of materials. Yet the subject of art is much more than a curriculum area dealing with materials and processes, for it embraces experiences with information and with feelings as well as with activity."4

Still others think of "art" as creative expression. Kenneth F. Perry, in An Experiment with Diversified Art Program, makes the following statement:

Leon L. Winslow, Art in Elementary Education (New York: McGraw-Hill Book Company, Incorporated, 1942), p. 4.

"Art, as the term has been used in this study, is creative expression which may take the form in any suitable material. In this sense art is a process, and though an object or "thing" may result, the original process is subjective."5

It is assumed, therefore, that art and art activities may be an organized body of educational experiences and also a process by which creative expression is developed in the student whereby he may release his emotions as well as gain practical knowledge in the use of art to his daily living.

Language of Vision

The language of vision, optical communication, is one of the strongest potential means both to reunite man and his knowledge and to re-form man into an integrated being.⁶ The visual language is capable of disseminating knowledge more effectively than almost any other vehicle of communication. With it, man can express and relay his experiences in objective form. Visual communication is universal and international; it knows no limits of tongue, vocabulary, or grammar, and it can be perceived by the illiterate as well as by the literate. Visual language can convey facts and ideas in a wider and deeper range than almost any other means of communication.⁷

⁵Kenneth F. Perry, <u>An Experiment with Diversified Art</u> <u>Program</u> (New York: Bureau of Publication, Teachers College, <u>Columbia</u> University, 1943), p. 21.

G"Philosophy of Art," <u>Collier's Encyclopedia</u> (New York: Crowell-Collier Publishing Company, 1953), II, p. 286.

⁷Gyorgy Kepes, <u>Language of Vision</u> (Chicago, Paul Theobald, 1944), p. 13. It can reinforce the static verbal concept with the sensory vitality of dynamic imagery. and interests of the proving

The language of vision has a more subtle and, to a certain extent, an even more important contemporary task. To perceive a visual image implies the beholder's participation in a process of organization. The experience of an image is thus a creative act of integration. Its essential characteristic is that by plastic power an experience is formed into an organic whole. Here is a basic discipline of forming, that is, thinking in terms of structure, a discipline of utmost importance in the chaos of our formless world. Plastic arts, the optimum forms of the language of vision, are, therefore, an invaluable educational medium.8

may furnish valuable insights into the use of art in the Students' Needs for Creative Expression

Students have a great need for creative experiences. They need to be encouraged to express themselves and to the uttermost fulfill their potentialities. When worried sometimes about students who have limitations either from inheritance or otherwise, it can be said that no one has ever fulfilled his potentialities -- and that, therefore, there is a tremendous amount of hope. Child develop as folly as possible

⁸"Philosophy of Art," <u>Collier's Encyclopedia</u> (New York: Crowell-Collier Publishing Company, 1953), II, p. 286.

Methods of teaching the arts should be adapted to the changing needs, capacities, and interests of the growing student. It is important, therefore, to trace the creative development of the student in relation to each of the arts, and to suggest methods best suited to each age level.

There is reason to believe that art expression is important as a release for students' tensions and repressed desires. Properly controlled, such activities as working with the hands or painting provides the teacher with the opportunity to study the emotional conflicts, personality, and motor patterns of the students. Although most of the investigation has been centered around the maladjusted and the handicapped students, it is possible that such studies may furnish valuable insights into the use of art in the education of all children.⁹

Theory of Art Education

Thousands of articles and hundreds of books have been written on the values to be achieved through art education. Even though they vary in emphasis, they may be reduced to something like the following proposition: Education, in a democracy, must help each child develop as fully as possible

⁹Elise Reid Boylston, <u>Creative Expression with Crayons</u> (Worcester, Massachusetts: The Davis Press, Inc., 1953), p. 44.

the perspectives, understandings, attitudes, and skills that will enable him to live a satisfying life and at the same time to contribute effectively to his social groups locally, regionally, nationally, and even internationally. Each student is as important as any other student; therefore, all students must be given equal opportunities at the learning experiences.

Art education in public schools where it has been used has made a valuable contribution toward the cultural development of individuals. Consideration must be given to the general use pupils will make of the art they are learning.¹⁰ It appears that more consideration should be given creative development for all pupils and that special attention be given to self-expression.

The program of art education should be carefully planned so that each individual may progress according to his abilities, potentialities, and needs. It should attempt to develop the student mentally, socially, and emotionally to help him become an active and contributing member of his social group.¹¹

10Victor D'Amico, "Leaders in Art Education," Arts and Activities XXXIX (March, 1956), p. 18.

llElise Reid Boylston, <u>Creative Expression with Crayons</u> (Worcester, Massachusetts: The Davis Press, Inc., 1953), p. 39. A progressive art program should provide challenging opportunities by which the student may learn through choice and decision in solving his own problems.

The art program should develop individual differences in personality by encouraging the student to act constructively in initiating a large portion of the subject matter presented to him and that he uses for motivation. The program should broaden experiences and develop many new interests and ideas. Incidents which make excellent motivation for aesthetic expression are often occuring in class and should be used as springboards for drawing and activity projects.¹²

Creative art is thinking art. The teacher looks for the student's own interpretation, idea, emotional feeling, and rendition of the subject; through stimulation and guidance, understanding is achieved. It is important that the real purpose of art education be kept constantly in mind by the teacher--not to produce artists or to make finished products or articles for show, but to develop the student to his fullest potentialities.¹³

It is an important factor that the student should learn

¹²Ibid., p. 46.

13_{Ibid.}, p. 75.

of realist and organization of a thing in a realistic setting and in terms of an actual perhie instructor. formance, 14 coto biglicies in social things as they

Dewey has pointed out that "to grasp the meaning of a able to express atmosts thing, an event, or a situation, is to see it in its relations to other things; to note how it operates or functions, what consequences follow upon it, what causes it, what uses it can be put to."15 Implicit in the data on the influence of form and of whole methods in learning is the generally a not streased, 1h many accepted principle that meaningful material is more easily learned and longer remembered than relatively meaningless content. Meaning involves structure; it inheres in relationwhich he is wholly or dartly upprepared. ships. silets and definite assistance. Art activities are

One of the most important developments in modern educaa levelopment of the stolect. Nore and more tion is the substitution of organized learning for the mere placed on visual aids, and every visua acquisition of highly specific and discrete items of informecoloys a great deal of artistic talent and: ation. Sound educational procedures do not disregard informrust portray an idea and must definitely ation; rather, they emphasize the learning of facts for definite purposes and in meaningful relations. 16 It is imp It is important. cuidance in art ectivities, are therefore, that the student be given every opportunity to an viewal aids and thus of participants

14 Arthur I. Gates, and others, Educational Psychology (New York: The MacMillan Company, 1949), p. 375.

15 John Dewey, How We Think (New York: D. C. Heath and Company, 1933), p. 137.

Arthur I. Gates, and others, Educational Psychology 16 (New York: The MacMillan Company, 1949), p. 375.

develop an understanding of realism and organization of information presented to him by his instructor. He should be developing his potentialities in seeing things as they are; and he should be able to express himself by creating objects as he thinks and works, being stimulated and guided by his teachers.

Art has long been considered by many administrators and taxpayers as a frill; and the requirements for teachertraining have not stressed, in many institutions, equal preparation in art education as for other subjects. The result has been to throw the inexperienced teacher into situations for which he is wholly or partly unprepared. He needs immediate and definite assistance. Art activities are helpful in the development of the student. More and more emphasis seems to be placed on visual aids, and every visual aid to teaching employs a great deal of artistic talent and creative ability. It must portray an idea and must definitely be understood; therefore, it is a quick and easy method. Students, with the proper guidance in art activities, are able to create their own visual aids and thus be participants to the learning process.

Perceptual Knowing

It is a function of art to translate conceptual ideas into perceptual forms. Art transforms things "known about" into visual forms that can be experienced directly, and known directly, through perception. Conceptualizations about anything are mental abstractions from it, mental in images from given perceptual data.¹⁷

It is assumed that students in high school have already become somewhat conscious of what constitutes good design. No formal lessons are really necessary, but attention should be directed to it when used in expressing vital experiences or in making craft articles. A feeling for the meaning and use of different types of lines, and the understanding of overlapping objects to give a feeling of depth, and the difference in representation and emotion as expressed through pictures to achieve consistent emotional effects should be understood. As skill and mentality develop, and awareness of good design will evolve.

John Dewey states:

"For the impact of value or values is created within the individual's own experience. to perceive, a beholder must create his own experience."18

Students have photographic minds; and if they can be activated to develop this image-forming power, they visualize

17 Edward W. Rannells, "Art as Perceptual Knowing," Kentucky School Journal XXXIV (February, 1956), p. 14.

18 John Dewey, <u>Art as Experience</u> (New York: Minton, Balch and Company, 1934), p. 54.

more clearly and express more accurately. The student stores in memory the particular characteristics of the object and reproduces it surprisingly well.¹⁹

To perceive an image is to participate in a forming process; it is a creative act. From the simplest form of orientation to the most embracing plastic unity of a work of art, there is a common significant basis; the following up of the sensory qualities of the visual field and the organization of them.

Art activities is one of the best educative means there is for insuring a continuance of perceptual experiences in the learning process. Even conceptual knowing, as in science, has its roots in perception. When they are separated and perception is left to one side, something is lost that is organic and essential to knowing.

It seems that perceptual learning comes to an almost complete stop at the junior high school level; but this is where the conceptual approach to learning should begin to dominate the educative process; this is partly due to the fact that its educative function from this level on is not sufficiently understood and valued.

Allowing for the lack of practice, a person draws about what he sees, and the drawing of almost any adult shows that

19 Gyorgy Kepes, Language of Vision (Chicago, Paul Theobald, 1944), p. 15.

he still sees as a child. This is not because he lacks skill in drawing. One can see well enough what it is that he is "trying to draw," and this is all the evidence one needs to see that, in some real sense, the development of visual perception seemed to have stopped for him when adolescence began; because education stopped making any proper use of perceptual processes in learning in his high school days.

Dr. Rannells, Professor of Art at the University of Kentucky, explains how education would do well to keep in touch with perceptual knowing in the following quotation from the <u>Kentucky School Journal</u>:

"Perceptual knowing is of value in education. I think it follows that art as a perceptual discipline has a special value in education as perceptual knowing. It is perhaps the most effective means of insuring the continuance of this way of knowing and learning, which I feel is worth preserving and using in the educative process-expecially during the critical years of adolescence. For it is here that education seems most apt to falter. In my view, art, as perceptual knowing, is most needed here to round out the process and make it more nearly whole."20

Art is not am isolated subject in human affairs, but is an integral part of such broad areas of life as the home, the ^{Community}, commerce, and industry.

which sourcess The Purpose of the School

In svaluettors of their own and around inter

A criticism often directed at the teacher while conduct-

20 Edward W. Rannells, "Art as Perceptual Knowing," Kentucky School Journal XXXIV (February, 1956), p. 16. ing an art program is the failure to "keep order" while the students are having art experiences. Proper classroom order differs form the "perfect picture of everything and everyone in place and a pin-drop quiet" to "children should recognize no restraints whatsoever." To clear up such misconceptions, several questions offering clues as to the kind of "order" appropriate to the classroom are brought to mind. What is the nature of the art program or process? What is the purpose of the school? What is the student's developmental level relative to self-control and assuming responsibility? As an extension of society the school's goal is to preserve and enhance these values subscribed to by that society. School art education is one which concerns how individuals feel about and care for one another and how to provide situations that stimulate students to think critically and to kind of baremeter for myself based on my early experience develop discriminating values. It should be the concern of which acts like a catalyst in pringing poople together, all teachers to involve them in taking responsibility for ebb or non-existent. I discovered that when I used the planning and developing on-going class activities, aspects resistance, a docility and a copiness. The of these being, time usage, space allotments, care and use of available equipment. Vital also is their participation effort. I decided to meet the students face to face and in evaluations of their own and group progress toward goals about or wished for, Upon this I hased all my teaching. Which students have helped to determine. made the interested in bheir work, and chair work became a part of them.

If art is a way of knowing and discovering, the student ^{must} have, even at the beginning, some opportunity to select, ^{to} explore, to experiment, and to try himself out. Above all,

he must see a purpose in his own art work; it must have some real meaning for him. He should be encouraged to share his own art experience with others and to respond constructively to that of others. He must be guided, again in terms of his readiness level, to reflect upon the meanings he has incorporated in his art work and those which others have put into theirs. Thus, the arts, by their very nature, can serve to develop the inner-discipline or self-control which is vital to overall learning. Self-control is learned and students must be helped to realize by their teacher that freedom bears a close relationship to self-control and is something to be achieved rather than given. One of the most important things to remember is that the student should be kept away from inhibitions and be kept happy. Victor D'Amico says:

"When I began teaching professionally I set up a kind of barometer for myself based on my early experience -that oreative teaching should have the basis of friendship which acts like a catalyst in bringing people together. If this is absent, then creativity is either at a low ebb or non-existent. I discovered that when I used the formal methods I had learned, I met with a certain passive resistance, a docility and a coolness. The work was turned out all right but it lacked any spark of individuality. As a result I rejected the teaching devices and pat methods which I had acquired with hours of painstaking effort. I decided to meet the students face to face and friend to friend. I tried to find out what they thought about or wished for. Upon this I based all my teaching. My being interested in them as people made them interested in their work, and their work became a part of them. found that nothing really creative resulted unless it was 21 saturated with their personality, their ideas, their dreams.

21Victor D'Amico, "Leaders in Art Education," Arts and Activities XXXIX (March, 1956), p. 19.

the shortely as level . Honesty in Art al so and destruction

Genuine art, or honesty in art, is something too many teachers overlook when considering an art activities program. The greatest beauty in the teaching of art and the forming of artistic judgements is the fostering of moral judgements in the pupils. A lack of this "right judgement" and honesty in art have been only too manifest, such as copying from other pictures, using patterns, the "keep them busy way" when the student has time on his hands. Easy things are done and then they are "doctored" to make them look genuine on the surface. This disregard for honesty could be an outgrowth of man's perverse tendency to deceive, and a weakness to pretend carried over from childhood. It could be evidence of the lack of appreciation of genuineness. The teacher's own actions and attitudes do not escape the students, and they speak louder than words.

Being creative and being honest are almost the same thing. It seems that a teacher would not tolerate, let alone encourage, the copying of a theme, a book report, or a solution to a mathematical problem. The effect of one's moral judgement is obvious in such a manner of working and teaching, a willingness to accept pretense for the genuine. From their own experiences they appreciate the fundamental wrongness of such tendencies; but is the vicious circle created by surround-

ing themselves and the pupils with false art activities realized? Are they conscious that these falsities about their students and themselves dull and sensitiveness to truth in other matters, and they pass them on to the children they teach? Let them think honestly and conscientiously, and consider what effect it would have on the character of the students to be surrounded only by genuine art activities.

The Nature of Art Activities and the Student

A formal; passive, sau

Art is a point of view--an attitude--toward phenomena that assumes natural causes for all things that can be detected by the senses. This attitude is so dominant in the mind of the investigator as he studies the problems in his field, and it is so pervasive in all fields investigating natural phenomena, that it can be dignified by calling it a philosophy-even a major faith.

Art activities is a general method of investigation. Precisely what is done through the method of creativity varies Considerably with the field under investigation. Does the student actually need the faith of naturalism to add to what other faiths he has in order to be at peace with himself and to be capable as a social being? He wants nothing more than he wants knowledge that he can depend upon and increasing order and an ability to see in perspective that which is chaotic and dimly seen. His approach is exploratory and developmental. The student sees chiefly the particulars that grow out of particular experiences. The student's "explicit" wants and interests are relatively immediate. The teacher must utilize these explicit wants and needs toward goals that are "implicit" in the potential of the student and the society with which he interacts and is a part.

To do this fostering of experiences for students that will meet their interests in specific questions and their urge for activity while helping them at the same time toward greater maturity requires both a willingness to provide a school situation where "doing" can be done and an understanding of how these activities may be used to sound educational advantage.

A formal, passive, too orderly classroom in which reading and other abstract activities predominate to the virtual exclusion of experimental activities is contrary both to the nature of the student and to the learning process itself. Gans, Almy, and Stendler have stated the situation very accurately when they assert: "The student is seldom concerned with the abstract. His interests lie rather in the specific and concrete. He does learn to generalize but only through the

gradual putting together of his experiences."22

CEJSCRIVES AND ACTIVISUMMARY AND ACTIVITIES PROCEEDS

Every book that is written with care expresses a point Introduction of view. The point of view underlying this thesis is made Basio to the success of any program are the side and explicit in this chapter. As such, it is guided by the ourposes that underlie the program. in determining these one principles and values common to all the creative arts. must take into consideration the basic ideals or values which Furthermore, three and one half years of active classroom the student will derive from then and let such theats and valand lecture experience has convinced the author that practes be the factor which governs the objectives. That the obtice not enlightened by a knowledge of principles is on the lectives must be carefully chosen is rebognized, for it is fringe of the trial and error method or even complete negfrom the objectives that the suggested activities and techlect. This chapter has presented the author's point of view mount of the evaluation will cont. Belleving that seathetic and the philosophies of others in the field of art education. as well as practical values will be derived by students, the Trial and error is uneconomical of money, time and effort, following objectives have been carefully chosen: and, all too often, never transcends error. For this reason 1. The student should be made aware of the "actual" some basic principles will be presented throughout this thesis, rather than the "abstract" concepts of space, area, scope, as well as their practical application. and being of the object to be developed. In other wordd,

through baking the object, these concepts would become roul

OBJECTIVES AND ACTIVITIES IN ART ACTIVITIES PROGRAMS

24 Ba .

Introduction

product.

Basic to the success of any program are the aims and purposes that underlie the program. In determining these one must take into consideration the basic ideals or values which the student will derive from them and let such ideals and values be the factor which governs the objectives. That the objectives must be carefully chosen is recognized, for it is from the objectives that the suggested activities and techniques of the evaluation will come. Believing that aesthetic as well as practical values will be derived by students, the following objectives have been carefully chosen: the student 1. The student should be made aware of the "actual" rather than the "abstract" concepts of space, area, scope, and being of the object to be developed. In other words, through making the object, these concepts would become real to the student.

2. There should be a general review of the six basic elements of art: Color, line, texture, form, tone, and space. Since these are essential principles, emphasis should be placed on them in case they have been forgotten or overlooked in previous training. 3. There should be continual exercises which will lead to coordination of the manipulation of hand and mind. This would tend to develop dexterity and skill in the finished product.

4. There should be ample opportunities for the student to express his creative qualities, and develop his initiative toward a goal of working on his own.

5. There should be opportunity for the student to be subjected to as many different mediums and materials suitable for his developmental level as would be practical. The student should be instructed in the use, care, and possible development of such materials, especially in combining colors in hues, intensities, and values.

6. There should be an aim to create within the student a continuing appreciation of art in all of the forms to which the student will be exposed.

7. Enrichment of each subject pursued by the student through the correlation of art with the subject should be a continual concern.

8. Another aim should be to develop through the study of the arts of other people, both old and new, an understanding of the work of others and something of his cultural heritage.

9. The teacher should develop in the student the ability to work independently and in groups, and thus acquire a better

social adjustment to the society of which he is a member. The slot The student should be led to become a discriminating consumer or a design conscious producer.

Activities

dents don't want to create anything tery duch and chose who Through many activities, results will develop in that to say to want to heah ever a picture they wade in core subjects being taught will be enriched and made more interestformer class at an earlier time, Such group will have its The student will receive art training, and also the ing. interests. It is important to build up enthusiant on the activities may bring about a closer relationship between the mit of the students before they actually segin takin art teacher and students through teacher-student planning of the entitities. Enthusiase is catching and stodents love to bel activities. With art activities, facts become more real raththat they are going to draw or create before they shart. er than abstract to the student -- and further develops his ini-There is no reason why stadents should discontinue the initiative. Working together in groups on activities creates use of big brushes and poster paints as they enter the upper better social adjustment in the individual which is one of the prime requisits of the public school. It has been recognized shie so that students may experiment. Poster paints have a that activities presented in any subject culminate in the end. place, watercolor performs a special task, crayen is desirable product of learning. Specific activities and specific instrucfor some types of work, and large colored chalks provide a tions will be found in this chapter under the subject heads. madian for such students to express thousalves most frequently

The activities for the classroom are presented according to the subject fields. They are: Vitalizing the English Program through Art; Finding Art in Mathematics; Science Comes to Life in Art; and Social Studies Enriched through Art.

Students cannot create out of a vacuum. They must have ^{something} to say and be motivated to say it. More time spent ^{in experiencing what they are going to do will bear fruit in} faster outpouring of student's work when he gets started. The teacher's responsibility is not at the desk while the students jump at the chance to draw or create something they want to create. The teacher will find that most of the students don't want to create anything very much and those who do seem to want to hash over a picture they made in some former class at an earlier time. Each group will have its own interests. It is important to build up enthusiasm on the part of the students before they actually begin their art activities. Enthusiasm is catching and students love to tell what they are going to draw or create before they start.

There is no reason why students should discontinue the use of big brushes and poster paints as they enter the upper grades. It is desirable to have a variety of materials available so that students may experiment. Poster paints have a place, watercolor performs a special task, crayon is desirable for some types of work, and large colored chalks provide a medium for some students to express themselves most frequently and freely. Often the students derive a great deal of pleasure from mixing media. Crayon with a watercolor wash, wet chalk, tempera and watercolor are all part of the student's equipment for expressing ideas.

Evaluating the students' art work is of vital importance.

Space filling, use of color, proper handling of brushes are important. The students are to be taught, in art activities, as well as the other academic subjects. Their growth is being measured as they compete with themselves, not in competition against a group. When they can evaluate their own work objectively they are being taught.

It is possible that the students in the upper grade: levels get discouraged and lose interest in drawing and painting because they can't capture the high degree of realism they want. Some teachers may take an extreme view. They require students to learn the laws of perspective and use this as a basis for many art activity projects during the year; or they take for granted that the students at this level won't enjoy activities that involve drawing and the art program is therefore limited to three-dimensional activities.

Boys and girls can and will enjoy a certain amount of drawing and painting at the upper grade levels if they have not been conditioned by teachers and parents to believe that realism is the major objective in art expression. Some time spent studying great works of art from the ancient world will prove a good investment. The arts of Egypt, for instance, reveal a great, productive people who had no desire to reproduce what the eyes saw. Yet they were responsible for creating

magnificent paintings in which color and design were carefully considered.

This is the time, especially in literature and social studies, when a collection of good colored reproductions of great paintings--ancient and modern--plays an important role. It can provide art appreciation experiences as well as inspiration for creative expression. The development of a collection of fine quality reproductions is within the budget of almost any school. If only three or four carefully chosen reproductions are purchased each year, a fine collection can be developed within a reasonably short time.

Boys and girls should be encouraged to look at the works of such late 19th and 20th Century painters as Paul Cezanne, Pablo Picasso, Raoul Dufy, Paul Klee, Amadeo Modigliani, and Jose Orozco. As they begin to develop an understanding of art that does not depend on visual realism only, but also on color design and emotional content, they will become more interested in their own creative expressions.

The following ideas and illustrations are furnished as a basis to determine appropriate methods and procedures to use in the courses of study in the high school.



VITALIZING THE ENGLISH PROGRAM THROUGH ART

CARTOONING

Students have a natural desire in high school to characterize on paper happenings of the day or of their own experiences. Offering excellent opportunity for such a project are the adages of Benjamin Franklin. An example is given below on how this natural desire can be put to constructive use in the literature or English class. Excerpts from Poor Richard's Almanac found in high school literature will give rise to many ideas for cartoons and will help the students to remember them by creating on paper their meaning.



"Eat not to dullness; drink not to elevation."

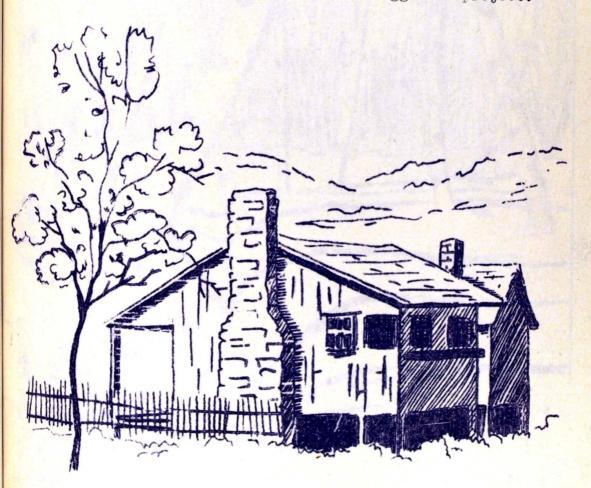


USE OF CRAYONS

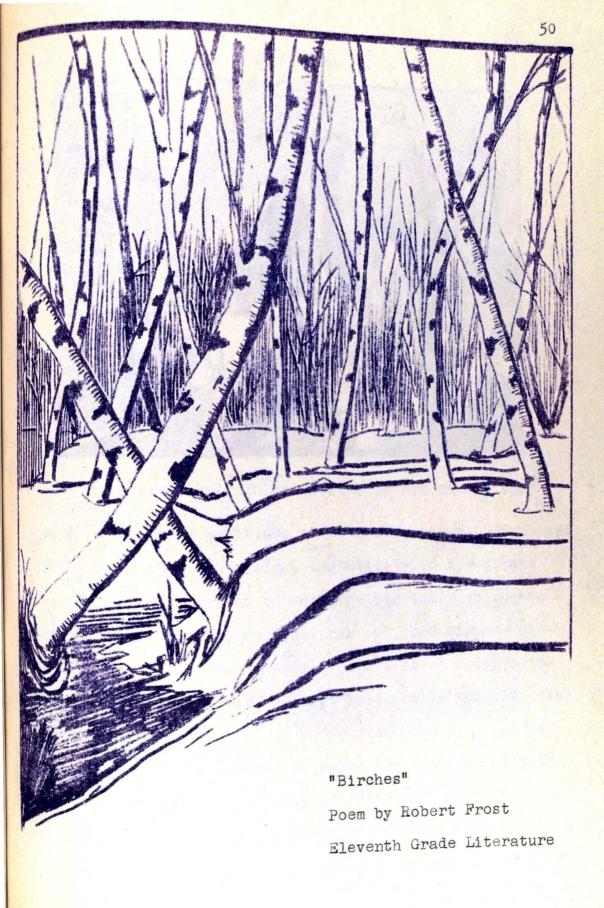
Crayon technique is not something about which a person can say, "This is the way to do it." The technique varies with each student and with each type of work he undertakes. What can be done for the pupil is to help him discover as many possible techniques and uses for crayon as he can. The student can employ crayons for all types of work; such as illustrating poetry, history, literature, not to mention "art".

ILLUSTRATIONS

An interesting art activities project in the literature class may consist of the development of a drawing or painting by the student, and from this drawing or painting depict a short story or poem. The following drawings show some of the possibilities of the above suggested project:



"Our Cottage in the Country"



WAYS WITH WATERCOLOR



Painting creditably in watercolor is not beyond the reach of the average ambitious student or amateur. If he has a little competence in drawing, the ability to see colors correctly, and willingness to work, he can learn enough to develop a style and technique all his own, and express himself well in this medium. Knowing colors is of primary importance in the use of watercolor. Most public schools teach the rudiments of mixing colors to produce others, so it is assumed that the student already knows the rules in pigment mixing. One of the best sources of information on how to use watercolor is <u>Ways with Watercolor</u>, by Ted Kautzky, which will help beginners by giving them enough elementary knowledge to get started, plus the stimulation and encouragement they can get from seeing a number of good examples, many of them in full color.¹ He has provided a graduated series of exercises in the making of complete landscape pictures; at first with a limited palette of two, three, or four pigments--then with as many as may be required by more elaborate subjects. This would be an excellent reference book for the school library, and the teacher could refer the students to it as a teaching

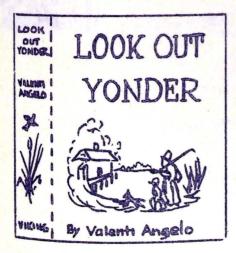
aid.



1 Ted Kautzky, <u>Ways with Watercolor</u> (New York: Reinhold Publishing Corporation, 1949).

BOOK COVER DESIGN

Authors are people who have something to tell others through printed words. They differ in their reasons for writing, but they all hope that what they have to say will be of real interest to the thousands who read newspapers or books or magazines. Along with the hope that the authors present good reading material, they hope that the particular book or story will reach the many readers. This is helped along by presenting the book in an attractive binding or "dust jacket." Today, attractively designed "dust jackets" instead of bindings distinguish modern books from one another. After assigning a book report, the teacher may ask for an attractive book binding or dust jacket to be designed by the students. This is an interesting project, and the students will get wonderful ideas from the story that they have read. This will involve color, design, and composition, important In an art assignment. Examples are given below:





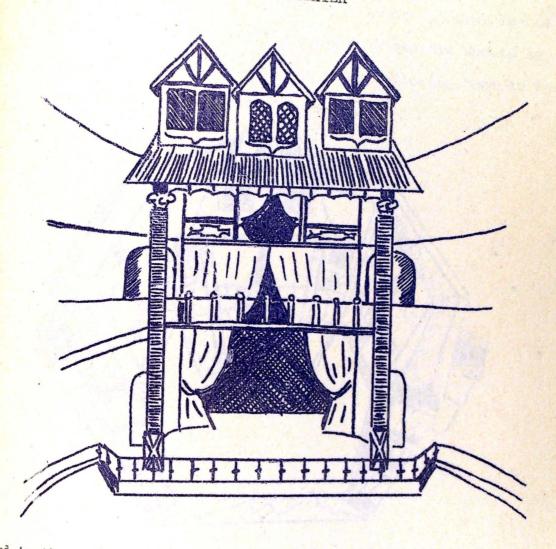
SHAKESPEAREAN THEATER

One of the most intriguing projects that may be conducted by students in the literature class is the designing of a Shakespearean theater. With guidance the pupils can create a miniature theater that was the type used for the Shakespearean plays.

In the days of Shakespear's boyhood, wandering bands of actors existed all over England. There were no theaters, so the actors put on their plays in the courtyards of inns. The crude stage was made by placing a floor upon a wagon body. The people sitting around the upper stories of the courtyard paid more than did the people standing down in the courtyard.

The first real theaters were built in the suburbs of London, and they were modeled somewhat after the old inn courtyards. The roof was still open to the sky; the "groundlings" still stood around the stage, which jutted forward from one side of the octagonal building. Some of the earlier theaters Were circular in shape. The richer patrons were seated in the roofed galleries lining the other sides. Some of the patrons often sat on the stage itself. The crowd felt free to shout comments to the actors, dispensing gibs of derision as well as shouts of approval.

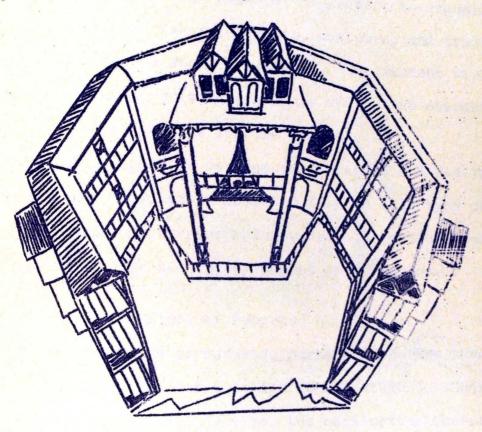
Part of the stage was covered by a wooden awning to keep off the rain. Dressing rooms were located in the back of the ^{theater} stage. The doors were on either side of the backstage SHAKESPEAREAN THEATER



and in the center was a curtain that was thrown back when ^{enterior} scenes were needed for bedrooms, caves, or tombs.² ^{Over} the rear stage was a gallery used to represent such places ^{as} city walls, upper windows, or any high place. Above the roof ^{Over} the inner stage was a turret. When a play was about to

²W. J. Glover, (ed.), <u>Wedding Revels, Short Plays from</u> Shakespear, (London: George Philip and Son Limited, 1948), p. 3.

begin, a flag was raised on the turret. Plays were given only in the afternoons. The sketches shown give the general layout of the theater plans; most of the general structure should be left up to the students, working together, allowing them to develop their creative abilities.3



Materials to be used in the construction of the theater are:

1. Four sheets white poster board.

- 2. Four sheets brown poster board.
- 3. Paste.
- 4. Scissors.
- 5. Four sheets green poster board.
- 6. Cheap, colored thin cloth for the curtain material.

³W. J. Glover, (ed.), <u>The Conspirators, Short Plays from</u> <u>Shakespear</u> (London: George Philip and Son Limited, 1950), p. 5.

PUPPETRY

The class which undertakes a puppet performance as a project lesson will find in it many sources of profit. As a by-product, literature and history may be vivified, for effective performance will require the student to acquaint himself with the literature, customs, costumes, and traditions involved in the story dramatized. The student will also be given training in writing dialogues and in the characterizations which he declaims for the puppets.

High school students can see the thoughts and feelings of human beings produced in artistic form in this type of performance because puppetry reproduces drama. Emotional effects of drama may also be secured by puppet performances.

Kinds of Puppets section. For the pup-

Of the many kinds of puppets, perhaps there are three types that are easiest for the high school student to construct. These are the Punch and Judy type, the marionettes operated from below, and the marionettes operated by strings from above.

The Punch and Judy type of puppets are usually empty and flexible figures, manipulated by the thumb and two fingers of the performer, who exhibits them by holding both hands above the head. *These are the true puppets.

Another distinct class are the marionettes operated from ^{below}, and by means of rods, or by the legs of the dolls them-

selves.

The third type is the "true marionette." These are manipulated from above by means of wires, or strings, which give life and motion to the figures. They are handled by an operator, or puppeteer. All modern puppets belong to this class.

Constructing the Puppet

There is a delight in store for the student in carving, molding, gluing, and painting the little puppets. The construction of the figure is not expensive and does not require any special talent or materials that are not found in the average classroom.

First of all decide on the character wanted and the size necessary to agree with the stage and properties. For the purpose of instruction, divide the construction of the figure into two parts; namely, the body and the head. If it is remembered that the human figure is approximately eight heads tall, it will be no trouble getting the correct proportions to the figure.

The first step is to draw the complete figure, actual size, on a piece of paper. The figure should be about twelve inches tall.

For the body, the materials and tools required are as foll-^{OWS:} (1) Bits of wood from a packing box or its equivalent; ⁽²⁾ A piece of sheet lead, 1" X 1"; (3) Miscellaneous small pails and tacks; (4) A sharp jackknife; (5) A sheet of fine sandpaper. A saw is helpful but not necessary.

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The body proper (see drawing) is made of 1-inch wood; the arms and legs are made of wood approximately 1/2 inch thick. As the whole body is covered by the costume, with the exception of the hands and feet, they are the only portions that require finishing.4

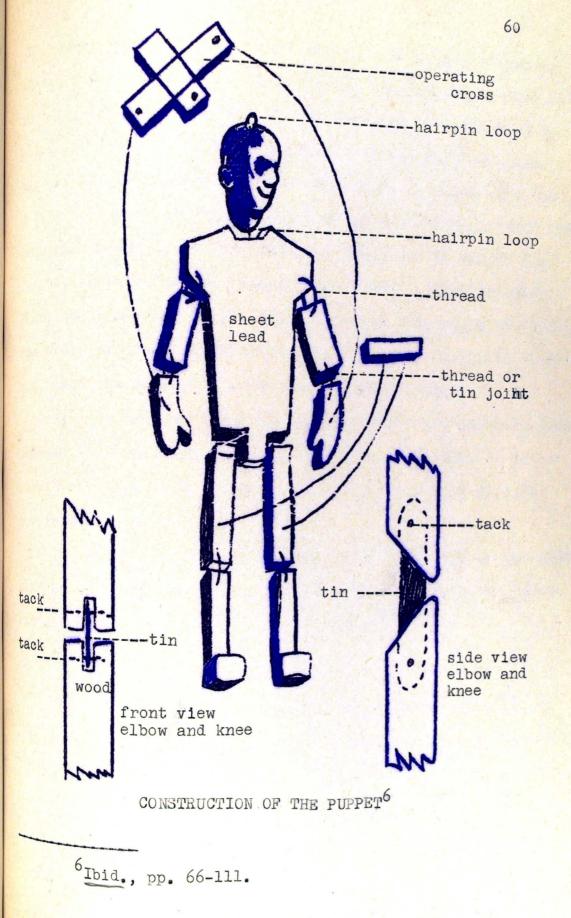
The joint between the shoulder and arm is simply a loop of thread or fine wire run through holes drilled in the shoulder and arm. The joint between the upper arm and forearm (or elbow) is made in the same way.

There are many ways to make the heads of marionettes. They may be carved out of wood, molded in papier-mache, and molded of plaster of Paris; but heads made of plastic wood are by far the most successful for the amateur. The wood is a putty-like substance that hardens quickly, and when hardened it can be sawed, filed, planed, sand-papered, and carved like Wood. Merely mold and model the head and neck from this substance as quickly as possible. It will be found that the features have to be exaggerated to be noticeable. Remember that the figures are small and will be viewed from a distance.

4 Marjorie Batchelder, <u>The Puppet Theatre</u> (New York: Harper and Brothers Publishers, 1947), p. 55.

ALA

5 Ibid.



For a place to tie the thread that holds up the marionette, stick a small hairpin in the tip of the head so that the loop is open from the front to the back and projects upward about 1/8 inch. A layer of cotton tacked on the front and back of the body gives it proper thickness and shape without having to resort to any tedious carving operations. After the head has hardened, take a knife and sandpaper to smooth the figure, and then add the finishing touches. Next the head, feet, and hands may be painted. Artists' oil colors are best, but ordinary brushing lacquer will do. While the paint is drying, make the operating cross and "walking stick."

61 .

For the hair an old doll wig will serve the purpose. Use raveled wool knitting yarn for fairytale characters as it is possible to get this in many more different shades than is possible with doll wigs.

In making four-legged animals, make both legs on the same side of the body operate at the same time. This arrangement simplifies the operation of the figures.⁷

December of The Stage della

The marionette stage is easily constructed. The top of ^a table may serve as a floor for the stage, with the framework ^{of} the stage built upon it. The puppet stage is just a minia-

7 Ibid.

ture stage, and the size of the puppets should determine its size. The stage should have a gridiron and adjustable backdrops. The stage curtain should be on rings, and tiny electric lights should be used in order to produce light effects. The lights may be arranged so that they go on three circuits.8

The puppet should be fastened to a control board (two crossed boards) which is held in the puppeteer's hand. The main board of the control should hold the strings that are fastened to the puppet's head; those just above the ears; those to its hands; and those to the center of its back. The hand strings should be loose and the other strings should be more firm. The legs are operated from another control, the "walking stick."9 for the most. Leavers snape bettern the entrance

Some Suggested Plays

Students may construct puppets and work out regular betwee desion at the beak of performances for the following:

Ichabod Crane, by Washington Irving Uncle Tom's Cabin, by Harriet Beecher Stowe December Night, by D. S. Fairchild

8 Arthur Richmond, (ed.), Remo Bufano's Book of Puppetry (New York: The MacMillan Company, 1950), pp. 36-40. ⁹Marjorie Batchelder, <u>The Puppet Theatre</u> (New York: Harper and Brothers Publishers, 1947), p. 60.

by the pasts made from detergent and liquid starchi four

Mix the determent an CASTLE with a spoor until it

The castle can be made primarily of walls and towers. Corrugated cardboard may be used entirely, also salt boxes may be used for the large tower (living quarters or donjon), paper towel rolls for the small lookout towers, and bisquit cartons for the entrance towers. Add a parapet at the top of the towers, and paint windows and lookouts.

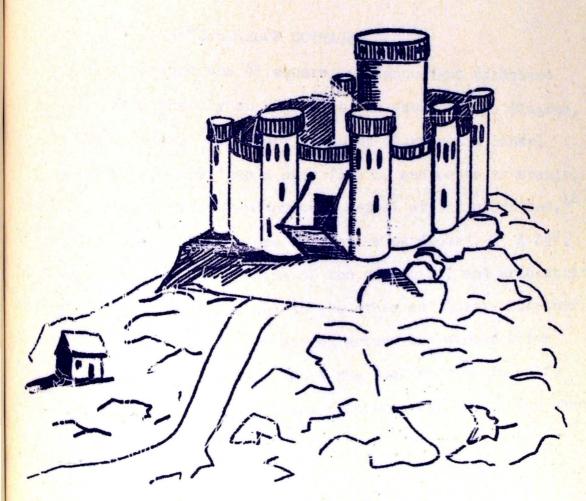
Make a wall of corrugated cardboard so that it reaches almost to the parapets of the lookout towers; to assemble, slit the towers to the height of the wall, and fit the towers over the wall. Slit the entrance towers on just one side, and slip the ends of the wall into these slits. Make a base of cardboard for the moat. Leave a space between the entrance towers for a gate, and build a drawbridge (of cardboard). Tie strings from the towers or gate to the drawbridge, and leave it in a drawn position. Set the donjon at the back of the castle wall. An inner wall and little buildings in the courtyard may be added. 10

For mountains, use crumpled newspaper, covered with a clay like paste made from detergent and liquid starch: four cups detergent to one cup liquid starch coloring.

10 Edna N. and John M. Clapper, (eds.), The Scrapcraft Magazine, Volume 4, (February, 1955), p. 9.

Mix the detergent and starch with a spoon until it possesses the consistency of a cake frosting. If it is too dry, add a little water. Color with vegetable dyes or poster paints.

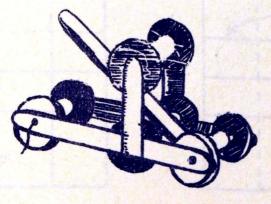
To make the mountains, rumple up several newspapers, and shape them to roughly look like hills. Sprinkle the surface with just enough water to soften the newspaper slightly. With the back of a spoon spread the paste on the newspapers. When completely covered, sprinkle a little granulated soap or sand around to add texture and change the color.



CASTLE ON A CARD TABLE

CATAPULT OR STONE THROWER

A catapult may be made out of tongue depressors and large spools, glued together as shown below. Add a crank handle, and some strings to make it more realistic. 11



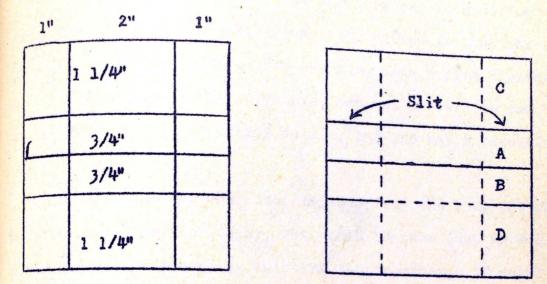
THATCHED ROOF COTTAGES

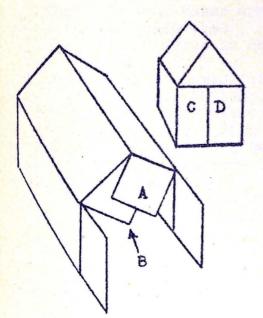
For each cottage one 4" square of lightweight cardboard is needed. Fold sharply on all lines, as shown in the diagram, to make the creases. Cut where shown by heavy solid lines.

To assemble, fold flap A over flap B, and paste or staple. Then bring flap C over D and paste. Repeat at the other end.¹²

For the roof, use a piece of heavier cardboard, 2" X 2½". Put a coat of paste on one side of the cardboard, and wrap string or cord around it from one end to the other as closely together as possible. Wrap a piece of string around the center which becomes the peak of the roof. Fold the roof section in half, and place it on top of the cottage. Paint a village at the base of the castle.

¹¹<u>Ibid</u>., p. 10. ¹²<u>Ibid</u>., p. 12.







THATCHED ROOF COTTAGES

PIPE CLEANER WARRIORS.

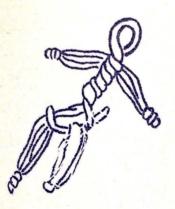
The basic structure for these warriors can be used for any pipe cleaner characters. Change the extras so that the character fits the setting. For example, make a pipe cleaner doll of red and white pipe cleaners, and put a heart in the hands. Set the doll on a lacy doilie, and one has a valentine doll.

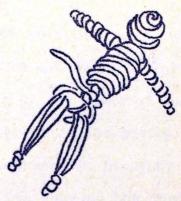
This pipe cleaner character is made from the long colored pipe cleaner so popular today, but could be made just as well of regular pipe cleaners by twisting two together. If color is desired, dip them in rit dye, and let them dry before making the characters.

Steps in making the pipe cleaner characters are as follows:13

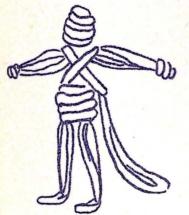
- 1. Wrap a pipe cleaner around the finger three times. Slip it off and flatten it out.
- Slip another shorter piece of pipe cleaner through the loops just made, and twist the four ends together. This makes the arm, and the short twisted ends can be bent to form the hands.
 Make another arm in the same manner. Then two more a little longer for the legs.

13 Ibid., p. 14.





- 3. For the head and body use another long pipe cleaner. Make a small loop at the top for the head, then put one end through each arm and twist to hold in place. Slip the ends through the legs and bend them back up around the body.
- 4. Wind pipe cleaners around and around the body and head until they are built up as much as desired.



- 5. If it is difficult to make the character stand, add a brace out behind. Fold the pipe cleaner in half, and twist the ends around the body of the doll.
- 6. Add a sword from a pipe cleaner in one hand, and tape a paper shield in the other to finish the warrior.



CONSTRUCTION PAPER PUT TO USE IN THE ENGLISH CLASS THE ENGLISH CLASS

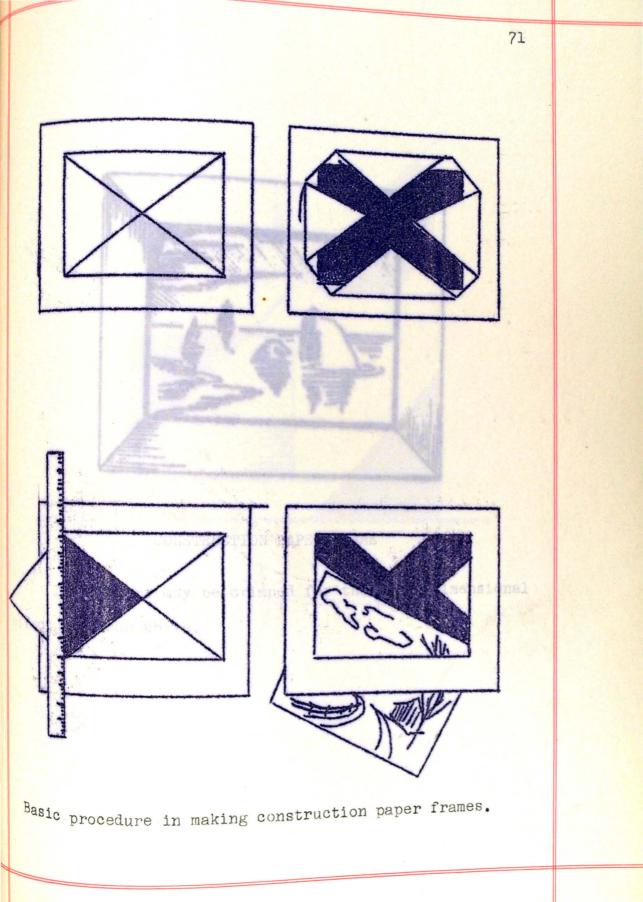
with theat the secondary units or any stati paper may be used. So many times it has been stated that the child has So have to create This dealers. The still has great desire to create. This desire can be fulfilled sery to make this, time frame areas, nulshaus, genoid, and through the ingenuity of the teacher by the power of suggesors, the dishie screedure band in said tion. As the student has the ability to create poetry or prose, he has the same ability to express his thoughts on first stop is to draw paper illustrating his writings. After having the student manne in from the blees compose a poem or write a short story, why not have him illmole should one thus been an ind ustrate some particular scene depicting his writing? After a draw disgonal lines, from corner to corner, this project has been carried out, an important thing to consider is the displaying of such illustrations or paintings. Most teachers have felt the need of an attractive frame for the front side of the frame down, place the rules displaying the students' work -- a frame that is inexpensive, reusable, and easily made. As teachers soon discover, impressive bulletin board displays can be time-consuming and ter of the frame, Then brocke the folis as shown in ... expensive. The idea of a simply made paper frame may help right, so the flans will premain in position. The in preparing the attractive displays, either on walls or bullfestened whare desired and plature imarted through etin boards.

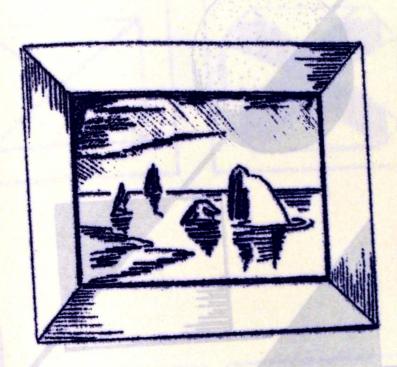
Lacy School, like many other schools, does not have the ready supplies needed for matting or elaborately framing Property Prop. Cometnuct pictures; however, the materials used in making construction Paper frames are easily obtained and very inexpensive. Colored Construction paper does wonders for the classroom and the beauty of a picture is often enhanced if the color chosen is One which is predominant in the picture itself.

students can make their own frames and take them home with their work. Tagboard or any stiff paper may be used instead of construction paper if desired. The only materials necessary to make this type frame are a ruler, a pencil and scissors. The simple procedure used in making these frames is illustrated below.

The first step is to draw guide lines for the opening by measuring in from the edges of the paper. The opening is made about one inch less in each overlap on each side. Then draw diagonal lines, from corner to corner, in the inside rectangle. Next, cut the diagonal lines to each corner and fold back the triangle-shaped flaps on the opening lines. With the front side of the frame down, place the ruler with one edge along the folded side of the triangular piece as illustrated. Fold the triangle back over the ruler toward the center of the frame. Then crease the folds as shown in the upper right, so the flaps will remain in position. The frame is fastened where desired and picture inserted through the open flap. 34

14 Ray Frykholm, "Making Frames from Construction Paper." Arts and Crafts LXV (March, 1956), p. 35.



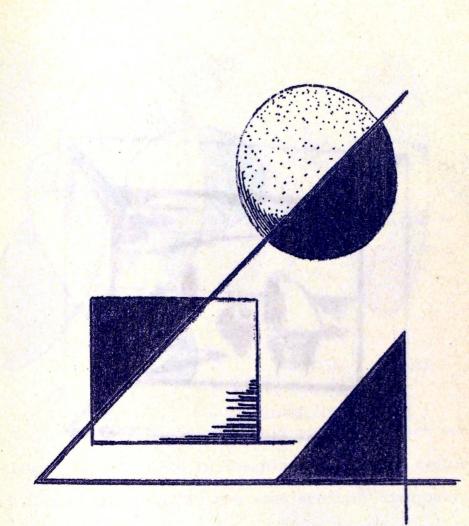


72

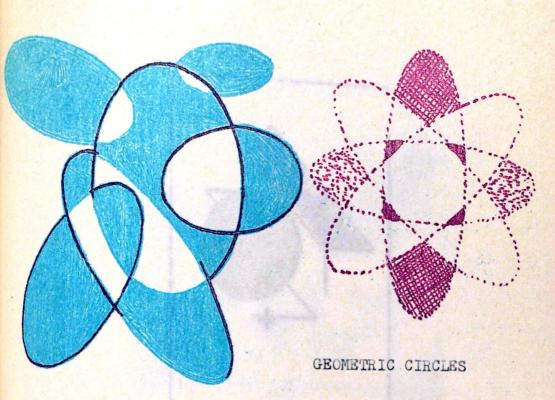
CONSTRUCTION PAPER FRAME

The corners may be crimped for the three-dimensional

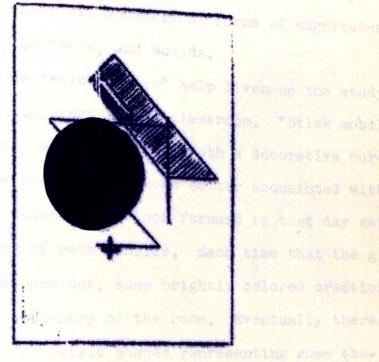
effect as shown above.



FINDING ARE IN MATHEMATICS



The circle is a plane curve all points of which are equi-distant from a point in the plane called the center. Through three points not in the same straight line only one circle may be drawn. The word circle is sometimes used to mean that portion of the plane enclosed by the curve. Various interesting designs can be derived from the use of the circle. Students should establish a visual image of the various elements of geometry and a means for establishing this image is the construction of various shapes; lines, angles, triangles, quadrilaterals, polygons, and circles, to Provide all the forms needed for a study in design.



75

"Stick sobiler"

The above drawing was copied from a study in design by El Lissitzky.

Three illustrations are given above to show how various degrees of elipses were used in developing designs. The above painting illustrates how geometric forms were successfully used in composition. 15

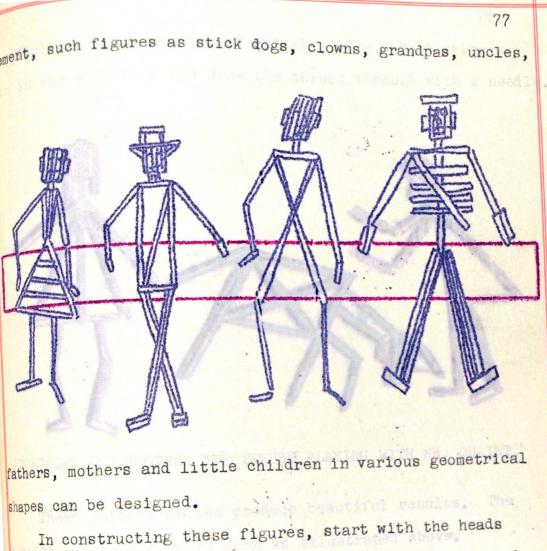
15 Gyorgy Kepes, Language of Vision (Chicago, Paul Meobald, 1944), p. 41.

ART IN THE GEOMETRY CLASS

One fascinating project for students in the geometry class is designing their own geometrical forms of magnitudes in space; as lines, surfaces, and solids.

Such projects as "stick people" help liven up the study of geometry and add interest to any classroom. "Stick mobiles" hanging in a geometry classroom serve both a decorative purpose and assist the student to become better acquainted with mathematics.¹⁶ The students will look forward to that day set gside for the making of math mobiles. Each time that the glue, scissors, and sticks are out, some brightly colored creation will be added to the scenery of the room. Eventually there will appear certain geometric shapes representing some theorems of geometry in the designing of their mobiles. Then can come the idea of constructing stick people and animals to represent theorems, rather than plain abstracts. The bodies of these stick figures will contain such shapes as intersecting circles, parallel lines, right angles, et cetera. This Will give the classroom an attractive and somewhat unique appearance, and it will prove easy for the students to re-Dember the theorems. With colored sticks, scissors, and wood

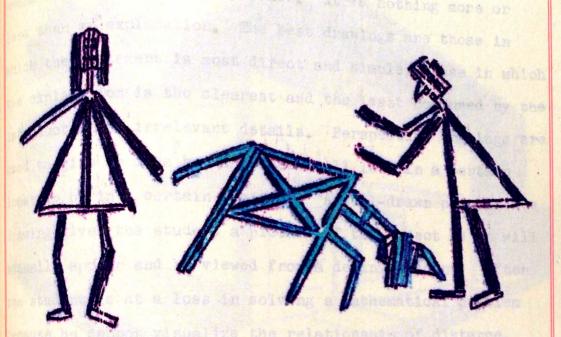
16 Alice Scannell and Madeline Fridrich, "Finding Art in the Geometry Classroom," <u>School Arts</u> LX (March, 1956), pp. 33-34



first: These are more effective if made by gluing several sticks side by side. After they dry, trim the edges to the desired shape; oval, square, triangular or oblong. By cutting

off little pieces from various colored sticks the facial ^{features} are produced. Detailed items like pipes, dog collars, ^{hats}, and eyes make the constructions more original and inter-

esting. After the heads are made continue with the bodies using triangles, rectangles, or other geometric shapes as the main part of the body, connecting the limbs to them. To hang 78 the finished stick people and animals, make a hole using a pin in the soft wood and draw the thread through with a needle.



ISOSCELES AND BROTHER HYPOTENUSE PLAYING WITH MR., QUAINT.

These colored sticks produce beautiful results. The mobiles may tell a story such as illustrated above.

The creation of the "stick people" illustrates the type of development which takes place when an individual is able

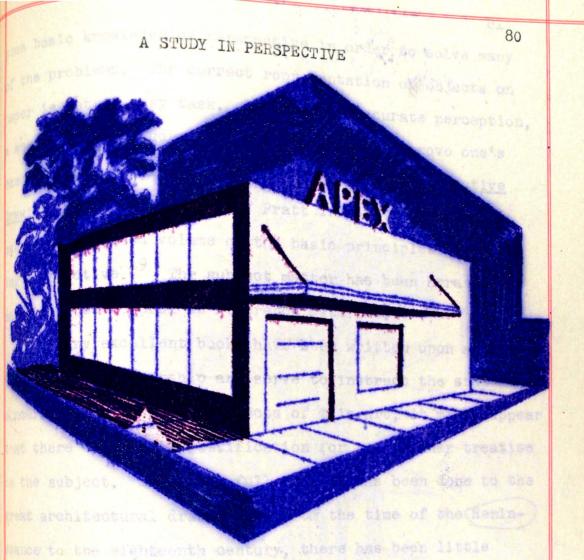
to build upon the environment in which he finds himself. Materials needed for such a project are as follows:¹⁷
(1) Colored sticks--tooth picks or match sticks; (2) Scissors;
and (3) Wood cement for gluing the sticks together.

17 Ibid., p. 34.

PERSPECTIVE DRAWING IN THE MATHEMATICS CLASS

A drawing is a statement of certain facts or truths by means of lines and possibly tones. It is nothing more or less than an explanation. The best drawings are those in which the statement is most direct and simple; those in which the explanation is the clearest and the least confused by the introduction of irrelevant details. Perspective drawings are used to give an idea how an object will look in a certain location or in a certain position. A well-drawn perspective drawing gives the student a picture of the object as it will actually appear and be viewed from a definite point. Often the student is at a loss in solving a mathematical problem because he cannot visualize the relationship of distance.

If the observer stands directly opposite one corner of a building, the building will be seen in perspective, and it will be noticed that all the lines, corners, or edges of the building which travel in the same direction appear to converge or meet at some definite distance from the observer. The point where these lines seem to meet is termed the vanishing point. The lines, corners, or edges of the building which travel toward the right will have their vanishing point at the right of the observer. The lines, corners, or edges of the building which travel to the left will have their vanishing point to the left of the observer. The lines, corners,



or edges which travel upward will vanish at some infinite distance above the observer.

If one stands between the rails of a railroad track, the rails seem to come closer and closer together as they get farther and farther away and finally meet at a point on the horizon, which is termed the plane of the horizon.¹⁸ It is necessary for the student in mathematics to have

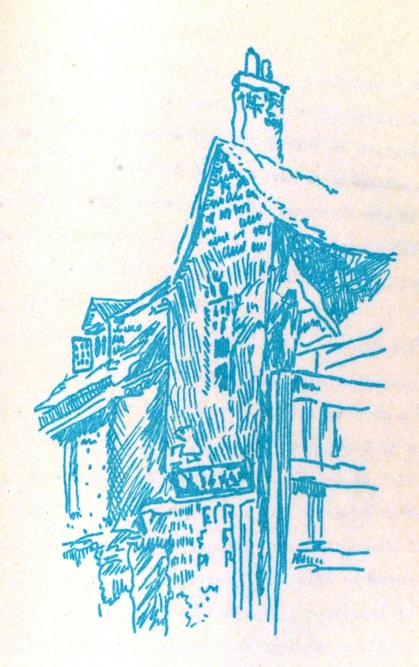
18_{L. A. Doust, <u>A Manual on Simple Perspective</u> (New York: Frederick Warne and Company, Limited, 1949), p. 40.}

some basic knowledge of perspective in order to solve many of the problems. The correct representation of objects on paper is not an easy task. It requires accurate perception, keen eye, good judgement, and the will to improve one's execution of details. In his book, Practical Perspective Drawing, Philip J. Lawson, of Pratt Institute, presents a useful illustrated volume on the basic principles of teaching perspective. 19 The subject matter has been arranged to make the book helpful as reference material.

As many excellent books have been written upon architectural draughtsmanship and serve to instruct the student concerning the technical aspects of this art, it might appear that there was little justification for yet another treatise on the subject. But while full justice has been done to the great architectural draughtsmen from the time of the Reniassance to the eighteenth century, there has been little attempt to appraise the cultural value of such examples of architectural draughtsmanship as our own age has produced.20

When the student becomes fully aware of perspective, It will open new avenues in art for him to pursue.

19 Philip J. Lawson, Practical Perspective Drawing (New Jork: McGraw-Hill Book Company, Incorporated, 1943). ²⁰Cyril A. Farey and A. Trystan Edwards, <u>Architectural</u> Tawing, Perspective and Rendering (New York: B. T. Batsford United, 1949). p. 8.



A STUDY IN PEN AND INK RENDERING IN PERSPECTIVE

Shown above is an illustration of the possibilities of accomplishment a student might achieve after being initiated into the field of perspective drawing.

MOBILES

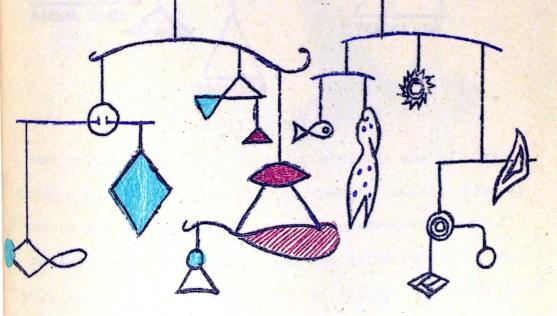
A mobile is a type of contemporary sculpture. Mobiles gre three-dimensional constructions of wood, stone, metal, plastic, wire, or various other materials, so designed that the total mass, or parts of it, can be put in motion by either manual or mechanical means, and that in some stage of their motion they may become self-moving. Like traditional sculpture, their subject matter may be realistic, symbolic, or abstract, and their size is variable.

Many phases of mathematics offer the opportunity for students to employ the practice of building mobiles. The movement of the mobile is an essential rather than a secondary part of its design. While it may be enjoyed in a static position, only through motion does it completely fulfill the aim of its designer. The nature of its movement varies. It may be simple or complex; spasmodic or continuously flowing; staccato or without marked rhythm. Its path of movement or motion may be formed by swinging, rotating, or gyrating "ovement and counter-movement. The rhythms resulting from the planned movements of the mobile form a large part of the Resthetic satisfaction felt by the observer. The most notable Whenomenon of the mobile is that when it is in motion both the total mass of the construction and each of its component Parts appear to expand and to extend into an area greater than

it actually occupies in space, so that in motion it becomes a dynamic and challenging force.21

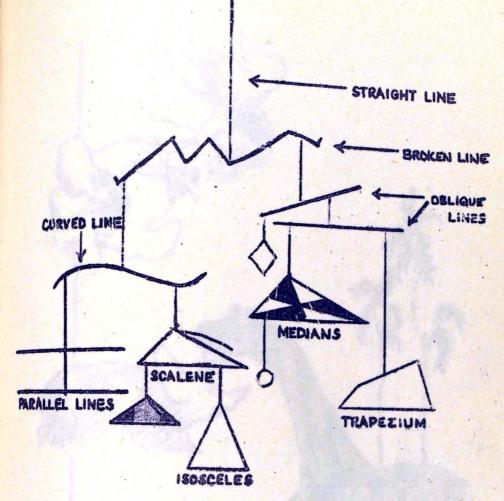
In addition to the three-dimensional elements which create the moving or kinetic piece of sculpture, a fourth element, time, is added and is directly correlated with both the speed and the duration of the mobile's motion.

Comparable weights are most important in the building of mobiles. The laws of the lever are employed, for it is pecessary to have perfect balance, especially in constructing a suspended mobile.



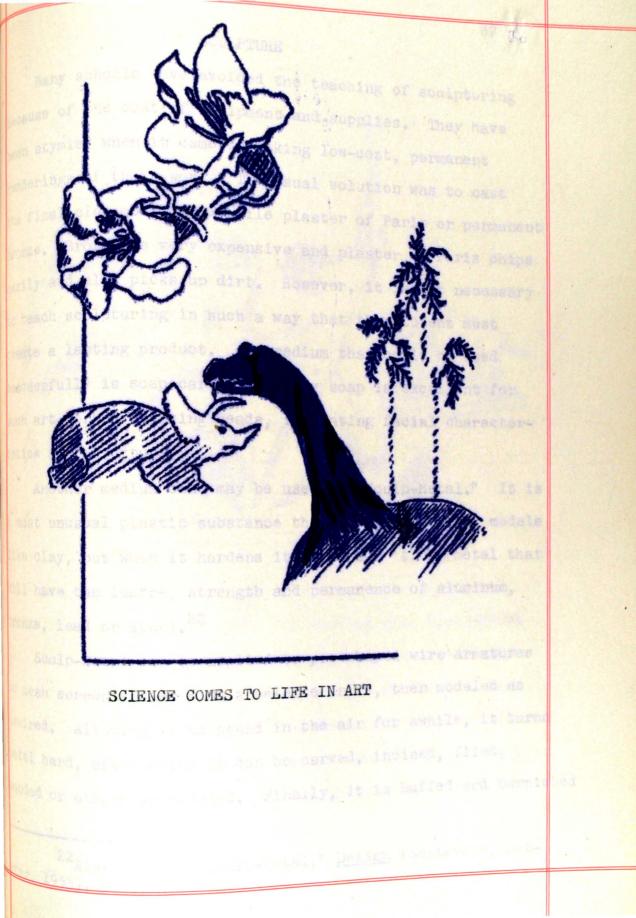
REVOLVING MOBILES

21 William T. Couch, (ed.), <u>Collier's Encyclopedia</u> k: Crowell-Collier Publishing Company, 1953) XIV, p. 45. New York:



GEOMETRIC MOBILE

Any or all of the axioms and postulates may be used in planning a mobile structure in the geometry class. Perfect balance is achieved and also the student becomes aware of the geometric shapes in both plane and solid geometry. As geometry is defined as that branch of mathematics which deals With the properties, measurements, and relations of points, lines, angles, surfaces, and solids, the art activity program ^{should} prove successful in establishing visual concepts of the various geometric terms.



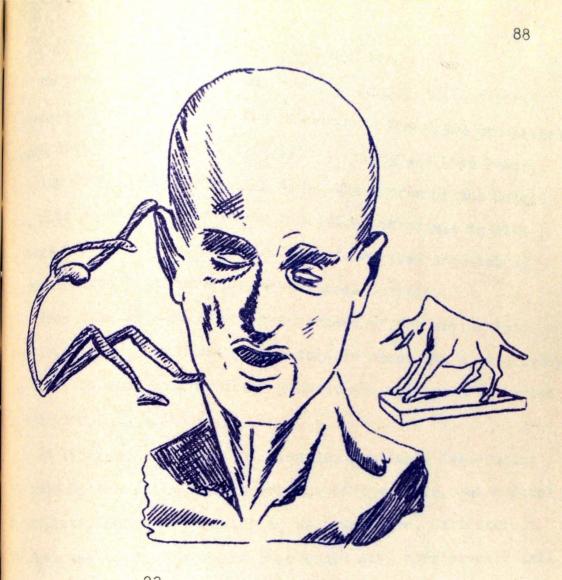
SCULPTURE

Many schools have avoided the teaching of sculpturing pecause of the cost of equipment and supplies. They have been stymied when it came to making low-cost, permanent renderings of their work. The usual solution was to cast the final clay model in fragile plaster of Paris or permanent pronze. Bronze is very expensive and plaster of Paris chips easily and also picks up dirt. However, it is not necessary to teach sculpturing in such a way that the student must preate a lasting product. One medium that could be used successfully is soap carving. Ivory soap is excellent for such art work as carving heads, indicating facial characterlstics and structure.

Another medium that may be used is "Sculp-Metal." It is a most unusual plastic substance that looks, feels and models like clay, but when it hardens it becomes a "true" metal that will have the lustre, strength and permanence of aluminum, bronze, lead or steel.²²

Sculp-Metal can be applied to pre-shaped wire armatures ^{or mesh} screen shapes with a palette knife, then modeled as ^{desired}. Allowing it to stand in the air for awhile, it turns ^{metal} hard, after which it can be carved, incised, filed, ^{sanded} or otherwise modeled. Finally, it is buffed and burnished

22 Alan Turner, "Sculp-Metal," <u>Design</u> (September, Oct-^{Ober}, 1955), p. 17.



to a rich patina.23

The tools one would need for working with Sculp-Metal are few: Tin shears, cutting pliers, twisted wire or mesh screen, rasp, steel wool, and sandpaper. This medium can be used very effectively in the anatomy class, making models for study. It gives the students an opportunity also to try their hand at sculpture which is often overlooked completely in the high school curriculum.

23 Ibid.

PRESERVING BIOLOGICAL SPECIMENS

To gather and to keep has been, and still is, a driving incentive of most teachers and students in the field of science. Nature itself established a goal in the long ago when resin, dripping from <u>Pinus succinifer</u> along the shores of the Baltic Sea, encased insects and other biological materials in clear, sticky, golden-yellow substance that fossilized into amber. These captives have been preserved until out time.

From this idea has come the process of preserving in plastic. It is possible for the science class, at a relatively low cost, to preserve in clear plastic the specimens collected by the group.

In 1952, a new survey of plastics available for casting was made by the Pathology department of the College of Medical Evangelists, School of Medicine, at Loma Linda, California. The goal was to find a resin that would give consistently satisfactory results when embedding anatomical specimens in clear plastic blocks. A formula was finally discovered that met every casting need. It was called C. M. E. - D6.

This formula has many advantages over any other formula, and it can be used with equipment found in any school. A wide

24 Randolph Specht, "Preservation of Color and Shape of Nowers," <u>College of Engineering Bulletin</u> (University of Florida, Gainesville, Florida, 1955), p. 10. range of specimens can be preserved in this brilliant, transparent plastic at room temperature and without the use of special ovens, hot water baths, or other special curing or hardening equipment.

Drying and preserving the green color of plants and the beauty of autumn leaves may be done by bedding them with a mixture of equal parts of dried table salt and activated silica gel, preserving both color and shape. These qualities are retained when embedded in the new plastic. For best results bury all green specimens with a covering of at least one inch of the silica gel and salt mixture.25

Possibly nothing can be more satisfying to the student and collector than to arrange a group of related specimens, or create a simulated garden in sizable blocks of clear plastic.







Artistic designs will be introduced such as the arrange-

25 Stephen Bass, Plastics and You (New York: Eastwood-Steli Company, 1947), p. 91.

pent shown in the drawing below of the ocean life. A simulated sea floor of sand, rocks, shells, barnacles, and a starfish was laid down. Rising above this are many varieties of coral. Many shells appear to be floating in the water pear the top. This block measures 6" X $6\frac{1}{2}$ " X 3". A thin layer of green-tinted plastic on the back of this block gives a realistic sea-green effect without in any way detracting from



OCEAN LIFE PRESERVED IN PLASTIC

the beautiful color of the embedded materials. An ever lengthening list of biological objects can be permanently preserved. This resin may suggest new uses in every branch of natural science and manual training.

CONSTRUCTION OF A FLOWER

The flowering plants, Angiosperms, are characterized W the specialized reproductive structures which compose the flower. The fields and orchards of man, as well as his gardens and parks, are devoted mainly to the growing of flowering plants. A southe twees for convertinge and so

To study the habits, structure, pollination, fertilization, germination and growth, classification and evolution, it is necessary to see the flowering plants in actual construction. To understand the various parts of the flower the student must visualize each structure and realize its importance in the development of the flower. One way of teaching the structure of the flowering plants is to draw them. Another way of learning the various parts of the flower is to construct them out of construction and crepe paper. To take the Oriental Poppy as an example, the following diagrams and

Step 1. Make patterns of petal and leaf.

Step 2. Prepare center, petals and leaves -- crush and "oll a square of green crepe paper into a ball 5/8" in diameter. Stretch a 2 3/4" square of green crepe over the ball and the nextle. Carl blos of leaves.

²⁶Dennison Crepe Paper Manual, Number 547 (Farmingham, ^{Massachusetts}, Dennison Manufacturing Company, 1947), p. 7.

pinch together tightly underneath, figure A. Around this, arrange about 1/4 bunch of ready-made poppy stamens and fasten with spool wire, figure B. Instead of using green paper one may use black crepe paper. Cut the strip of black paper 1 3/4" wide, instruction 1 and 2. Cut into 6" lengths. stretch a strip fully, double twice for convenience and cut along one edge into a very fine fringe 1" deep, figure C. Rub fringe between thumb and forefinger to make finer and give a twisted look to the tips. Curl the tips very lightly, Gather the uncut edge around base of the ball, arranging so that the ends curl toward the ball. Fasten tightly with a 6" piece of smool wire. Cut off surplus paper below fastening and, if necessary, clip fringed ends to make them even.

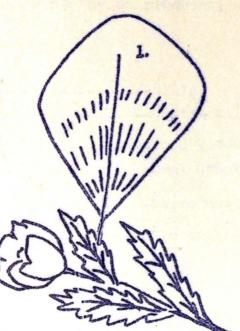
Cut 6 petals for each flower. Shade each petal with black crayon from center to base as indicated on the pattern, using a bit of cotton to rub the color in and making it heavier toward the base. Paste a 3" piece of spool wire to the unshaded side of the petal in the position shown on the pattern. Mute each petal deeply 3 or 4 times along the top edge, cutting slightly near the base.

Leaves are made by cutting 4 or 5 leaves for each flower. Mark veins with steel knitting needle. Curlitips of leaves alightly outward, while holding the light side inward.

To assemble, place 3 petals, shaded side in, evenly spaced

ground the center with the fluted tops about 1 1/2" above tips of the center. A bit of paste on the base of each petal will hold them in place. Arrange the other 3 petals in the gecond row just between those of the first row. Fasten with a double thickness of spool wire. Wrap the stem of the flower with a 1" wide strip of green crepe. 1 1 below the flower add a 12" piece of number 7 wire to lengthen the stem; wrap stem a second time to make a thickness of a small pencil adding leaves on the opposite sides of the stem, the first 3" below the flower and the others 2" apart. Place right side of the leaf toward the stem.

CONSTRUCTION OF A FLOWER

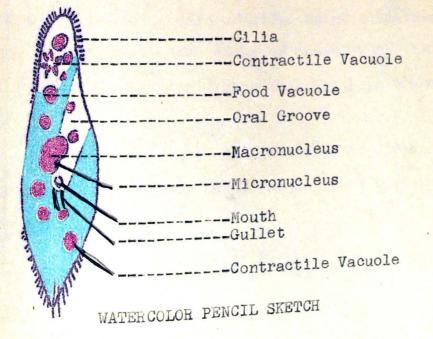


USE OF COLORING PENCILS

The project of preparing a biology notebook is a compulsory assignment in most high schools. It is necessary, then, to encourage the students as much as possible to develop drawings as accurately and as meaningful as is possible. These drawings are often done in pencil with no color whatsoever introduced.

There is no limit to striking color effects a student may get by using coloring pencils. For bold, brilliant lines--dip the coloring pencils in water. For wash, use damp brush, wet brush, stump or cotton--working over color already applied.

It is easier to develop a distinctive, original technique with coloring pencils than with any other medium. They are versatile and come in a varied palette of brilliant colors whereby any shade or tint may be produced.



ORIGIN OF COLOR

Light and color are essentially one. Color, thereore, can plainly be seen to have had its origin in that stupendous cosmic command, "Let there be light."27

Exploration of the records of the dim ages before witten history began has revealed that cave dwellers, feeling an inner urge for self-expression, yielded to the strong creative desire to depict in some way their experiences and surroundings. In spite of their struggle to live and many perils, they took time to paint pictures of the animals that they (hented.) The actual existence of those peculiar-looking creatures has since been proved by means of scattered remains and fossils found in recent times, here and there, especially In southwestern Europe. 28 The outlines of figures in the illustrations and murals left by the cave men were often carved into the rock and then filled in with yellow, red, and black Ngments mixed with melted grease or oil. Paint containers Were made out of hollow reindeer horns or bones, while crude brushes were constructed of fine twigs that had been pounded at the ends with stones.

As the years passed, from Stone Age period of circa 20,000 Nears ago to the Chinese Era of the Great Wall and the time of

²⁷J. H. Bustanoby, <u>Principles of Color and Color Mixing</u> Wew York: McGraw-Hill Book Company, Incorporated, 1947), p. 1.

28_{Ibid}., p. 2.

the Egyptian Pyramids, circa 3000 B. C., few colors were in use-not more than four or five. Remains of papyrus have peen found that are illuminated with red, green, yellow, and white. In their painting the Egyptians depicted men and aninals in characteristic but conventionalized attitudes. Many phases of the life of that day were graphically represented on the walls of tombs.²⁹ The ancient Greeks overlaid vases with decorations in rich designs. The early Christians employed color in religious symbols and pictured martyrs and saints on the dark walls of their underground abodes, or catacombs.30 Though they were constantly persecuted, religious inspiration and fervor stimulated them to use color in trying to express their strong faith. Later on, when allowed to worship openly, they became prolific painters, creating colorful murals and mosaics.

The era of the Renaissance recorded the golden age of the old masters, during the fifteenth and sixteenth centuries, where appeard the names of such famous men as Michelangelo, Boticelli, Corregio, Durer, Raphael, Holbein, Titian, Perugino, Leonardo da Vinci, Paul Veronese, and others, who gave intense

29_{Ibid.}, p. 3. 30 Ibid.

study to art and to the application of color.

When America was discovered it was found that most of the Indian tribes of this continent used both pigments and ayes from organic and inorganic material for painting their pulies, coloring their rugs, baskets, and skins of animals. Such dyes as red and black were made from the bark of trees; pellow, from lichens and grapes; purple, from huckleberries; white, from certain grass stems; pale yellow, from the peeled rods of rushes; and brown, from root bark. Some tribes used less permanent color matter; from pokeberries and bark of trees were employed to dye the hair.³¹

The totem poles of the Northwest, as well as carved wood and ceremonial altars, were done with colored earths or pigments derived mostly from iron-bearing minerals, such as ochre and other ores. White was derived from kaolin, gypsum, limestone; black, from graphite and powdered coal; blue and green, from copper ores. The Indians mixed ground-up earths with grease and fat. Water and saliva also were used.³²

It is evident that man has used color in one form or another since ancient times. In the course of his development,

as may af light is bent as it is

31_{Ibid}. 32_{Ibid}.

pe often admired the beautiful rainbow and eventually beceme curious, wondering what caused its vibrant display of color. The ancients called this phenomenon "the messenger of the gods;" but apparently on one found a scientific explanation for it until 1670, when Sir Isaac Newton showed that color evolves from light. 33

The solar spectrum may be produced in the classroom by obtaining a glass prism and, in a darkened room, allow a ray of sunlight to enter through a slit in a window shade and mass through the prism. The ray of light, bent or refracted by passing through the prism, produces the beautiful band of rainbow colors that is called the solar spectrum.

The reproduction of a color circle or solar spectrum is a very worthy project for students in science. From this color circle the students will gain practical information on the application and utility of these color data, value of color, important notes on color mixing, and evidence of the tremendous influence of color on our daily lives.

The following illustration shows a ray of light from the sun, which is pictured at the upper left, passing through the Mism. The ray of light is bent as it passes through the

33 Ibid.

100 prism, afterward forming the spectral band of red, orange, yellow, green, blue and violet. This simple experiment is easy. A band of vibrant colors will immediately project upon some surface in the room. The into any desired subere, well. They have many opportunities SOLAR SPECTRUM time materials more presentable by the 15. BLUE GBEEN PES

LETTERING

There is good taste in lettering as there is in all other forms of art. Many types of letters are of historical origin and can be used to fit into any desired scheme.

All students should be acquainted with at least one full alphabet of both capitals and lower-case letters. Usually, children want to letter well. They have many opportunities in school and beyond school to use their ability to letter. They will be able to make materials more presentable by the use of well-spaced letters. Lettering, if taught as a formal technique, can be a rather uninteresting subject, but there is a suitable approach to it.³⁴

Keep examples of good lettering before the students on the bulletin boards, posters, signs, book jackets, and blackboards, and in other similar places. Have them bring in samples of good lettering. They can make signs for the bulltin board by cutting out words from magazines and pasting them on other paper. They will become aware of good form in letters. Soon the students should want to make their own monograms, or put their names on folders, maps, notebooks, and pletures. Encourage this urge. When the students want to learn more about letters, that is the time to help them out.

34 Harold Gregg, <u>Art for the Schools of America</u> (Scranton, Pennsylvania: International Textbook Company, 1950), p. 85.

POSTER DESIGN

poster making and use have become a part of the school curriculum more than any other art activity. It looms large among the activities which are begun in the primary grades and continued through high school. In every field of study there is opportunity for students to express their ideas Color 19" vary deportant in poster through poster making.

Lettering is one of the most difficult parts of poster making. Freehand lettering is attractive but difficult for students who have had a limited degree of art training. It is important, therefore, that the teacher stress the importance of correct spacing and proper types of lettering for a particular poster. Poor letters can spoil an otherwise splendid piece of work. Expensive equipment is not necessary in making attractive posters; wrapping paper, wall paper, or any other inexpensive material may be used. Balance in design and a right feeling for brilliant colors in strong contrast cannot be purchased with expensive equipment.

Poster design correlates with all school activities, and It is an effective instrument in the school's public relations Program. As in a mural, the poster must tell a story at a glance. It cannot be verbose. The slogan must be concise and t. A series of posters in a social studies or science class, for example, may reveal the development of an event or thing,

such as communication, transportation, shelter, tools, modes of travel, or inventions.

Successful posters have one center of interest; they never show improper balance. Effectiveness at a distance is obtained by using plain lettering, attention-getting slogans, and color contrasts.

The scientific use of color is very important in poster design. Color has been called the "music of light," because it has tone, harmony, and a registered scale.

Posters are not read at close range ordinarily; hence, the visibility of colors is important if they are to be used intelligently. The following are the associations usually credited to certain colors:35

Red. excites nerves, arouses feelings and motor impulses. Orange is heating, soon excites irritation. Orange-yellow . . is warm, lively, glowing. Yellow arouses joy and gaiety. Yellow-green . . is cheerful, smiling. Green is restful, soothing, neither warm nor cool but neutralizing. Blue is cooling, quieting, expresses serenity, spirituality. Blue-green . . . is sedate and somber.

the me bloom she visibility of purple; 35 James S. Kinder, Audio-Visual Materials and Techniques New York: American Book Company, 1950), p. 149.

POSTER DESIGNS





Lavender	is tranquil.
Violet-blue	is stern, hard, unyielding.
	suggests stateliness, solemnity, richness, royalty. suggests purity, spiritual super- iority, or physical immaculate- ness.
Black	indicates spiritual darkness, gloom and death.

It is best in good poster design to confine the choice of colors to not more than four. Visibility of colors is also important in choosing particular colors. Purple is the least visible color, and it is used as a standard of comparison. Yellow has twelve times the visibility of purple; ^{orange}, nine times; green, seven times; red, five times; blue, ^{three} times.

DIORAMAS

This term comes from the Greek word meaning "to see through." The <u>Dictionary of Education</u> defines a diorama as 'a three-dimensional representation composed of various symbolic and real materials such as pictures and specimens, and frequently utilizing both transmitted and reflected light to produce a natural scenic effect." 36

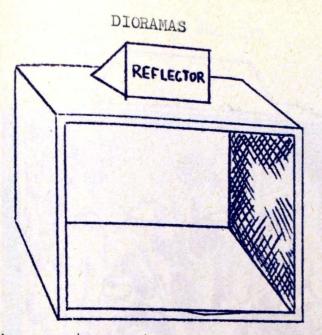
Any scene, landscape, historical event, ceremony, story, group of people, fictional incident, or scientific specimens is good content material. The figures are placed in a realistic setting, and the entire grouping is usually placed in a box-like case whose top, ends, and front are made of glass or left partially or completely open. See illustrations below.

In terms of interest for students, young and old, the dioramas rank high. It is undoubtedly safe to say that they, like all other audio-visual materials, are useful aids, and their use in learning units must be planned. It is conceivable that interesting and meaningful units of work can be organized around the diorama.³⁷

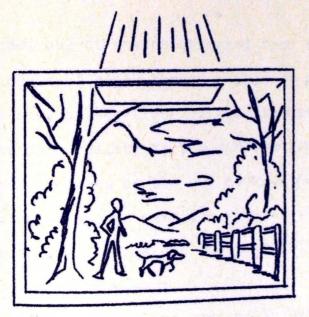
Pictures or specimens are placed in appropriate settings, and the settings are built up along habitat lines.

³⁶James S. Kinder, <u>Audio-Visual Materials and Techniques</u> Wew York: American Book Company, 1950), p. 342.

37<u>ibid.</u>, p. 343.



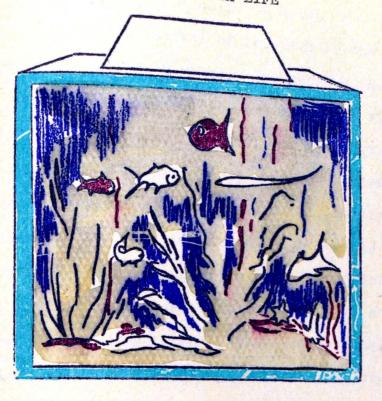
The box is easy to construct; an ordinary cardboard box may be used. Typical size of the box is approximately 10 by 10 by 18 inches. Such a case is easily handled. The reflector is lined with luminous paper to project light into the box.38



The figures of the diorama are usually carefully wrought, and give a distinct illusion of reality.

38 S. Palestrant, <u>Practical Papercraft</u> (New York: Home-Wafts, 1950), p. 47.

DIORAMA OF SEA LIFE



Any suspended object may be attached from the ceiling of the diorama by means of black thread. Objects growing on the 'sea floor" may rest on the floor of the diorama. An aqua blue background gives more reality to the construction. Color is important in such projects as the one above. Actual colors of the various living organisms make the visual aid more meaningful. The apportionate arrangement and proportionate sizes of the organisms are also important.

The box may be used over and over again using new subject ^{latter} and various other mediums.

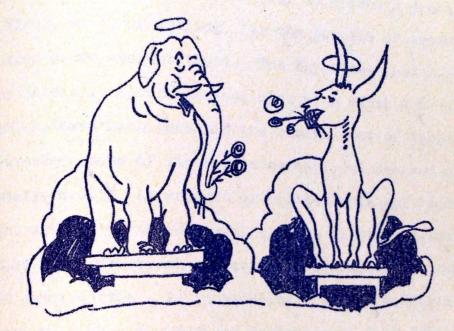
THE ART OF ENAMELING ON METAL

Currently, there is a revival of interest in the cennuties old art of enameling on metal. Inexpensive equipment, needy-to-use enamels and well-written textbooks are stimuli to the development of this craft. Jewelry, bowls, trays, murals, nobiles, tiles and other metal enameled pieces created by stutents will show remarkable spontaneity and originality. Worklug with brilliant, jewel-like metal enamel colors is an enpyable experience. Because copper is ductile and inexpensive, this metal is most commonly used, but gold, silver, sheet steel, stainless steel and even cast iron are sometimes enameled.

Little working area is needed and metal enameling correlates favorably with other metal working projects. Scrap metals can be utilized and simple enameled pieces are completed so' quickly--three to fifteen minutes--that there is no problem of sustained interest. Pieces can be reworked until satisfactory Pesults are obtained. The American Art Clay Company, Indianapolis, Indiana, furnishes handbooks on enameling which have Proved helpful in preparing units on "enameling on metal."³⁹



39<u>Amaco Metal Enameling</u>, Booklet Number 7 (Indianapolis, I^{mliana}, The American Art Clay Company, 1954).



SOCIAL STUDIES ENRICHED THROUGH ART

CUT PAPER MOSAICS

Mosaic, the method, or the result of the method, of fixing small cubes, or tesserae, or marble, pebbles, tile, manel, glass, or other similar material to a smooth prepared surface, floor, wall, or ceiling, for the purpose of decoration, been used since ancient times. The Egyptians used glass posaic for jewelry. Floor mosaics, made with black and white peach pebbles, have been found in the excavations of various sites in Greece. Some of these date as early as the end of the fifth century, B.C. 40 As ancient or medieval history is being taught, the methods of making mosaics is an interesting subject and could be expounded by an art activities project in inexpensive mosaic construction. In introducing the work discussions of the large wall murals and floor designs made long ago with wlored stones and glass will stimulate the students to learn wre about "tesserae." They may be stimulated by being shown the decorative background designs used in the murals, along with the birds, buildings, people, and animals, all made with colored stones or glass. Designs may be started by cutting strips of Maper, fairly even in width, using the paper cutter, and then ^{Wt the} squares the desired size. Black or brown paper makes

40" Mosaics," Collier's Encyclopedia (1st ed.), XIV, 176.

111 tesserae show up very well. This type of experience dives the students an opportunity to study the way colors difect each other, and they learn how to make important elesets stand out through contrast with adjoining colors and relues. It has an advantage over painting, for this purpose, weeuse every arrangement is tentative and colors may be easly moved about until the desired solution is reached. While it is not projected as a substitute for the use of glass, stone, or ceramic pieces, it does give students an experience that approximates the same design problem. An example of a fmous mosaic is presented below: A detail of the sixthentury mosaic which forms the choir wall of the apse of Saint Vitale, in Ravenna, Italy.⁴¹



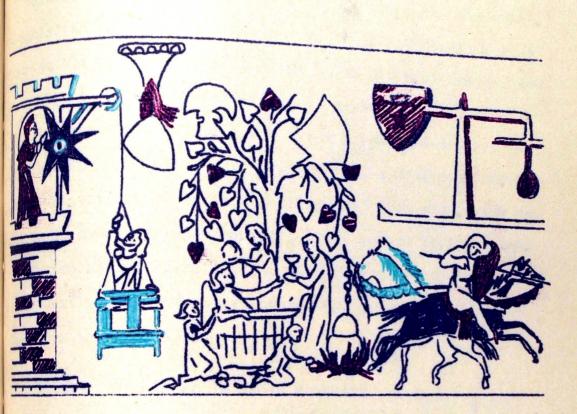
EMPRESS THEODORA AND ATTENDANTS

41 Ibid.

High school students may attempt many projects in murals. "ural" comes from the Latin word "muralis," meaning of, or pertaining to, walls, therefore a wall painting. Combinations gart and social-studies offer much opportunity in the drawig or painting of murals. These murals may be done on paper or cloth and then attached to the walls for temporary use. smetimes they are done on the blackboard in crayons. Themes concerned with local history, national development, growth and development of inventions, or school life and activities are common art projects. Murals with their overlapping and smerimposition give a posteresque effect. Successful murals follow definite principles. Simplicity is very important, and the ideas the drawings portray must be understood at a glance.

Drawings made on the walls of caves and caverns were probably the first murals. They portray a panoramic story of the Meriod for which they are intended. From murals one gets an liea of how the people dress, their activities, their beliefs, their crafts, and how the people in the past have helped to Whe the present. They present a pictoral history that helps the students to understand the people of all ages and times. Murals in the classroom may be done on white wrapping Maper, using tempera, chalk or crayons.

82, 1931. P.



KNIGHTHOOD IN FULL POWER

The above drawing illustrates how a mural may tell a story about the life of the people of a particular period.42

42 Henry R. Luce, (ed.), <u>Life's Picture History of</u> Man (New York: Time Incorporated, 1951), p. 42.

115 114

GLASS SLAR

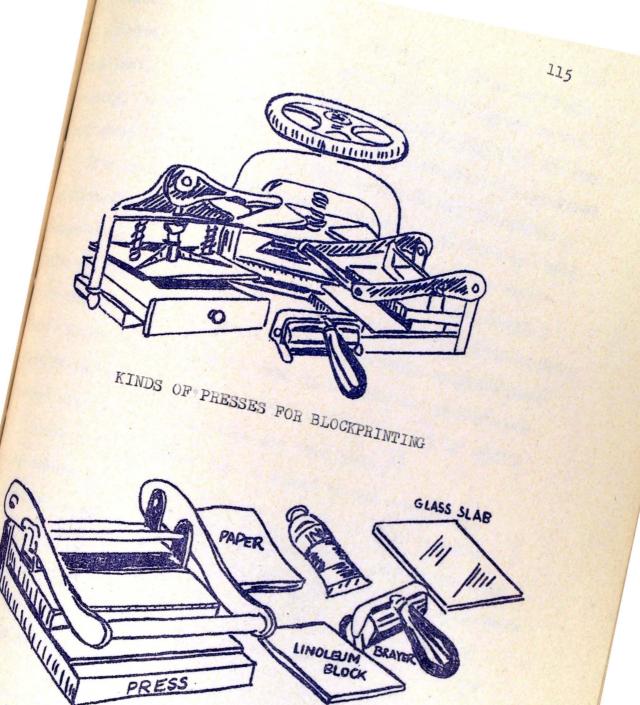
BLOCK PRINTING

Block Printing is a worthwhile project for the students pocial science for it includes two fields of study; one is the practice of carving on linoleum in an artistic manner, and the other is the visual perception of seeing an improvised infiniting press" in action. The block printing method is the type that was used many, many years ago by such famous persums in history as Benjamin Franklin, who began his career in herica as a printer"s apprentice. This method is definitely a crude process of printing, but with ingenuity on the part of the student and teacher many interesting outcomes may be depived from the process.

Procedure in Block Printing

Secure a strong table and arrange materials as shown in the illustration below. Squeeze a small amount of ink on the ink slab, spread evenly with brayer until the ink covers the entire roller, then apply to the block, rolling from side to side and from top to bottom to insure even distribution over • the entire surface. Be moderate in the use of the ink. Too woh is as bad as too little. Place paper on the bed of the Pess; then the inked block on the paper. Apply pressure and Henove the print. The block must be re-inked for each succeeding print.

In multi-color printing, ink and print first lightest



SET UP FOR PRINTING

plor block. Remove the block allowing the print to remain the press; repeat for each color, printing master or key plock last. It is not necessary to allow drying time for each minting. When the final color has been applied, the finished mint should be placed on a flat surface to dry thoroughly. If a press is not available, prints may be made by using g adapted clothes wringer, covering the print paper with newspaper backing. In the same way, a rolling pin, brayer, rallet or hammer may be used. One may print by rubbing directy on the back of the print paper with a spoon or glass door mob. Water soluble ink is used in schools and in any case mere it is not necessary to have permanency. It is easily deaned with water. Reducers are available. 43

Block printing inks may be mixed in the same way as Mater-colors. The water soluble ink may be used as waterolor for painting. In multi-color work new colors are made by printing one color over the other. This, of course, entails the knowledge of color mixing. Many wondrous and exciting art experiences can come from the use and application of the minting press.

43Henry Frankenfield, Block Printing with Linoleum Canden, New Jersey: C. Howard Hunt Pen Company, 1953), p. 9.

The more mediums the student tries the more adept he will become in expressing himself in the field of art. There is no greater satisfaction to a person than to feel that he accomplished something. Crayon etching offers that stisfaction. It is a simple, inexpensive, quick method of moducing an etching that students should be taught.

cover a piece of paper completely with a light-colored mayon. Then completely cover this with a layer of black. With a toothpick, scratch a design or picture on the paper.⁴⁴ Mis will scratch away the black, allowing the light color p show through. Several colors may be used for the under-

coat.



44 Harold Gregg, <u>Art for the Schools of America</u> (Scran-^{Man}, Pennsylvania: International Textbook Company, 1950), p.

TOTEM POLE CONSTRUCTION

Totem means an animal used as a symbol or name of an plian tribe or clan. In the study of our country and the history of the American Indian, a Totem Pole project could welop through proper guidance by the teacher. Each carvmg and design on the original totem poles were symbols of beliefs of the Indians. Considerable research could go into this project, determining construction of the pole. me procedure is suggested below:

The totem pole may be made by covering large cans with mer mache, adding ears, eyes, nose and other details of ardboard, and painting with airplane dope and liquid ox Mood shoe polish. Each student may make an individual section for the totem pole. The first layer of paper mache is put on the can without a layer of paste on the can so that the lead can be removed from the cans. Also each of the heads accept one at the top should be left open top and bottom. The by can is covered over the top. The cans are covered with a about one inch of paper mache at one sitting and left to dry will the next class meeting.

The still damp heads are removed from the cans, and now "Ind shapes may be made for the eyes, ears, nose, et cetera, V cutting out two pieces of cardboard to shape, stuffing with Basen and sealing the edges with gummed tape. These

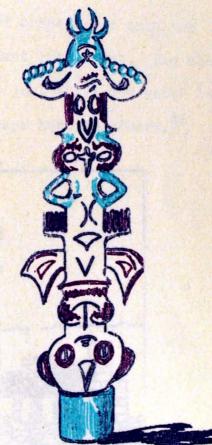
deces are then padded and shaped with paper mache, always ding more and smoothing out to fill the awkward gaps. mese pieces are then attached to the main head with gummed mper tape, and then painted and decorated when dry. 45 A base and standard for the totem pole may be constructalout of heavy cardboard roll (such as linoleum comes in), placed in a large can, and filled around the roll with sand or stones. Then each head is slipped over the cardboard roll,

saving the one with a top until

last.

This offers an excellent opportunity for the students' imaginations to run "wild."

A simple drawing of a linished totem pole is shown below:

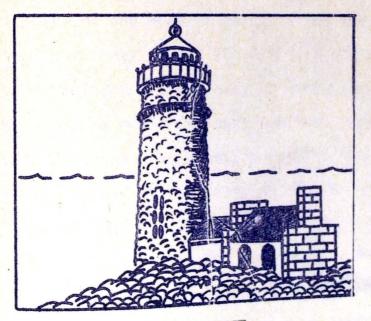


45 Edna N. and John M. Clapper, (eds.), The Scrapcraft Prazine, Volume 4, (January, 1955), p. 24.

MONTAGE AND COLLAGES

praw a picture of a desired scene; using airplane glue, we small pieces of glass or tin foil on for such objects windows of the buildings. With the same glue, put small building, and larger pebbles for such building. The drawing will be put on cardboard.

The background is made up of crepe paper sculpturing. Whe narrow strips of crepe paper and apply paste to about y or 5" at a time. Push the pasted crepe paper onto the wrdboard with a stylus or other blunt instrument. Use black ior roofs, blue for the sky, yellow just above the water level, wua for the sea, and a few white caps here and there. 46



THE LIGHTHOUSE

46 Edna N. and John M. Clapper, (eds.), <u>The Scrapcraft</u> Wazine, Volume 4, (February, 1955), p. 25. 121 STUDYING THE BOOK OF KELLS FROM THE STANDPOINT OF ART The Book of Kells is an illuminated manuscript, one volume, mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutaining the four Gospels in Latin. Its date has yet to be mutain classed as <u>Vulgate</u> by some experts, but it differs so thely from the accepted Vulgate that perhaps it shall be the four the accepted Vulgate that perhaps it shall be the four the accepted Vulgate that perhaps are of peculiar mutain" text. Some of the varient readings are of peculiar marrest. 47

The text is, however, a matter of relatively small immutance. The glory of the Book of Kells is the amazing wanty and infinite variety of its illumination and ornament. In grandeur of conception and delicacy of execution several wits illuminated pages merit the term sublime. Taken as a whole the Book of Kells is a supremely beautiful document, impassing all other works of its kind, and by far the finest maple of early Christian Art in Ireland. During the Middle the Book was well known upon the continent of Europe, and thas been a widespread influence upon European ornamentation. As the pages are turned beauty and mystery compete for

47 The Book of Kells, Volume I, Reproduction of Folios 182, Volume II, Reproduction of Folios 183-339, (Printed in Mutzerland, 1951, Urs Grof-Verlag Bern. 122 itention. Spirals interlaces with a precision and sublety, imost it would seem, beyond the power of pen to trace or eye psee, lines of color interwoven like threads of gossamer-were they done? Some of the grotesque animal forms seem phave strayed in from prehistory. In the figures of the pengelists or of the enthroned Virgin and Child, the human why is represented at such a remove from nature that the meder finds himself in a Celtic twilight on the threshold of history. In the pages of the manu-

script Northern styles of at appear side by side, Aristian and pre-Christim, mingled with Celtic, Applie and Romanesque. For the history of European art, the manuscript is a mine Dut yet fully explored and it is a labyrinth of beauty, No which perhaps the clue Was not yet been found.



48 Ibid.

CHARTS AND DIAGRAMS FOR ART ACTIVITIES Charts are defined as information in lists, pictures, poles, or diagrams; also, a map may be considered as a mart in the navigational sense of charting a course. Graphs lines, diagrams, or pictures arranged to show quantity, welopment, function, or relationships of factors. Graphs ut constructed upon definite mathematical principles; charts ne not. Diagrams are extremely helpful in showing relationsups and connections. The same is true of Charts. The conrentional sentence diagram, in which the graphical form is used as a means to an end, is an ingenious and helpful teachmg device. Shades of meaning, modifiers, assisting words, ations, and other elements, are all shown in proper relation-Miv. By and large, diagrams developed in class are more pertment and beneficial than those prepared outside of class. It hould be remarked also that individual pupils and class comuttees should be encouraged to use diagrams and sketches in wmection with their work, as in oral reporting or written Maries. Whether done in black and white or in color, the Magram's function is always to clarify meaning.

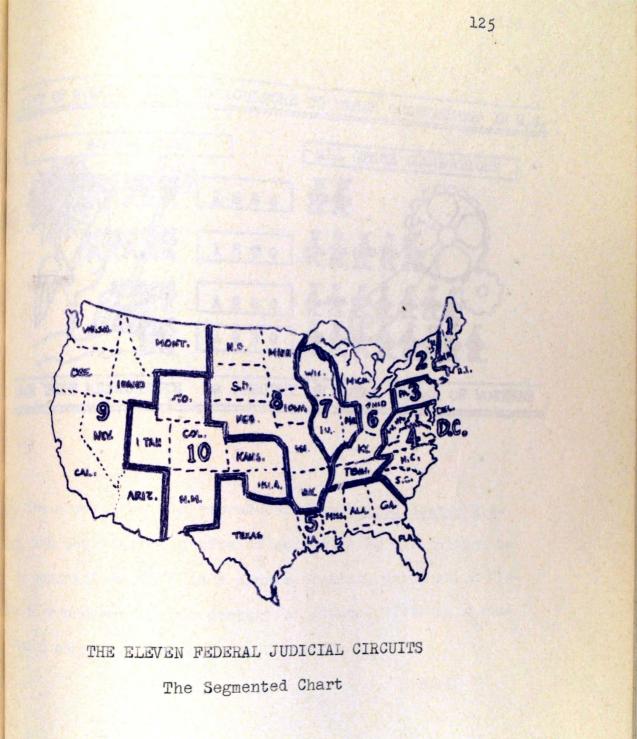
In making charts and diagrams, three methods are presented: he first method is stick drawing. Here broken lines repre-"at bodies and limbs. With a little attention to preparation "the figures and student can sketch. These sketches have

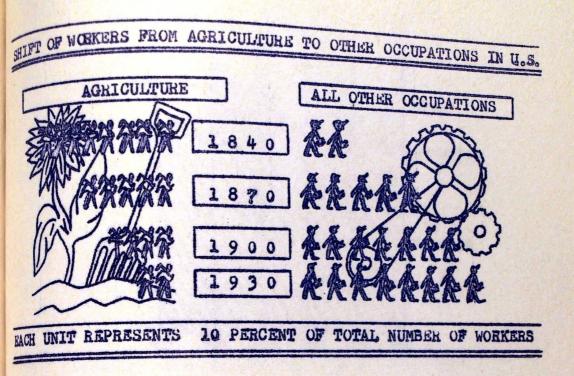
added advantage that they can portray action and motion. The second method is developing a chart or diagram in the proportion and size from another printed diagram and then nojecting them on a screen with an opaque or slide projector. The sketch can be enlarged to any size simply by moving the projector near or away from the screen.

The third method is to enlarge by proportional squares. mis is not frowned upon by art teachers but is encouraged. it is a quick and easy way of enlarging the drawings. Divide the small sketch into small squares by drawing light lines with inder. Next divide the blackboard or cardboard space into the me number of squares. This may be done with a yardstick or if using twine. Rub a light-colored chalk on the twine, draw aut, and snap the twine against the blackboard or paper. Hually, transfer the features from the small sketch to the Hard square by square.

Miniature charts are presented on the following pages Mpresenting some of the basic types of diagrams and charts. Mey are illustrated and briefly explained in the accompanying Agures.

⁴⁹James S. Kinder, <u>Audio-Visual Materials</u> and <u>Techniques</u> New York: American Book Company, 1950), p. 120.

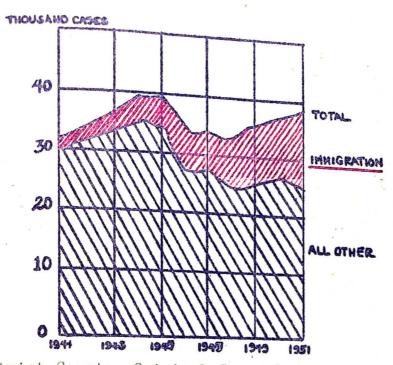




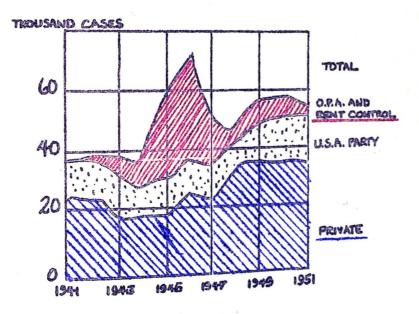
The above chart is reproduced from <u>United States His</u>-<u>Way</u>, and depicts the shifts of workers from agriculture to ther occupations.⁵⁰ It is a simple drawing, using stick fig-<u>ues</u> to represent the percentage of groups. This is a com-<u>Unation chart and diagram illustration</u>.

50 Fremont P. Wirth, <u>United States History</u> (New York: Merican Book Company, 1945), p. 294.

FREQUENCY OR PROGRESS GRAPHS



District Courts -- Criminal Cases Commenced



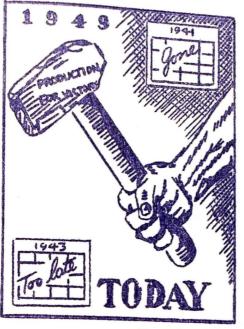
District Courts -- Civil Cases Commenced

Q

"The struggle--Republican versus Democrat." Newspapers abound in cartoons pertaining to the governent and its practices and policies. From the beginning of Methemican Democracy, publications have portrayed actions, Meats, promises, party controversies, and pro and cons in Il phases of our civil government.⁵¹ They can express many thes the thoughts more clearly than can words. It takes MV a few seconds to study a cartoon and understand it, for ¹¹ is so vivid it speaks for itself. An excellent example ¹⁴ "story in cartoon" is found in <u>Government for Americans</u>, ¹⁰ h is the text for senior high students in social science.⁵²

51 <u>Ibid</u>. 52 <u>Rollin Bennett Posey and Albert George Huegli, Gov-</u> <u>Rollin Bennett Posey and Albert George Huegli</u>, <u>Gov-</u> <u>Rollin Bennett Posey</u> <u>Rollin Bennett</u> <u>Rollin Bennett</u>

1942: AMBRICA'S CRITICAL YEAR IN ARMING FOR VICTORY



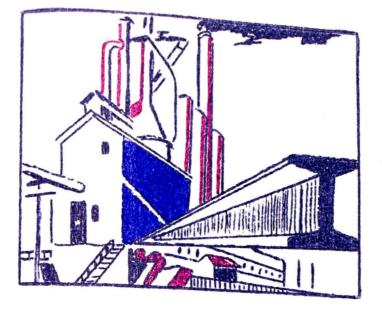
Herblock, "N E A Service" 53

Students enjoy this type of cartooning as much as any hat may be introduced in the course of study. Here they any express themselves in a completely different technique. I may be by stick figures, abstraction, or by realism. Here they will get a chance to use the pen and ink technique wits fullest degree, as most cartoons are done in pen and the To stimulate this project it is suggested that cliplags from newspapers and magazines of cartoons related to heial studies be brought to the classroom and displayed on the bulletin board.

53 Eugene C. Barker and Henry Steele Commager, <u>Our</u> (New York: Row, Peterson and Company, 1947), p. 947.

POSTER DISPLAY

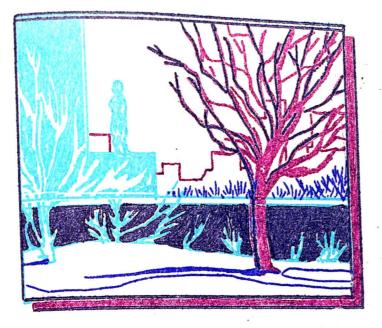
130



The Machine Age in social science offers many challenges whe student of art. Organized labor in this age lends twelf admirably to a poster display. The posters should be willfully balanced. The student should attempt to get across the feeling of the Machine Age in his poster; at the same time, scan observe shading, composition, and line formation.

These posters may be mechanically drawn or freehand atches. The unit may be introduced in three series: (1) the mailroad history, (2) the automobile history, (3) the mation history. In teaching transportation in the Machine the posters drawn might illustrate some of the following conmats: The first railroad engine and the modern diesel the first Pullman car and a modern "Sleeper;" the list railroad terminal and a modern terminal; and an early allroad trip and a modern interurban tour.

SILHQUETTE DRAWING



Any phase of our "American Heritage" may be portrayed vsilhouette drawing. Contrast of values is very important nsuch a drawing. Many varieties of silhouette drawing may wintroduced. In social science, perhaps such men as Andrew wkson, Henry Clay, John C. Calhoun, Daniel Webster, William wry Harrison, John Tyler, and others may be represented on

The bulletin board in silhouettes done by the students. If the bulletin board in silhouettes done by the students. If implex silhouettes are attempted as shown above, assist the twients in choosing the correct values of contrasting light that if they need help; however, it would be better if the dark if they need help; however, it would be better if the twients used their own imaginations and ingenuity in values, when the students, and choice of colors used. Much can be done with the project in developing awareness of composition and form.

INPLEMENTING THE ART PROGRAM IN LACY CONSOLIDATED SCHOOL

Introduction

The period of adolescence, when the child develops from wildhood to adulthood, is generally thought to occur from ween the ages of thirteen and seventeen. This period of wuration, however, varies, for all children do not mature the same rate, nor in exactly the same way. Some children w begin to mature before the age of thirteen, and some wildren may not reach full maturation until after the age

From the ages of eleven on, children are found in various ages of development towards maturity, and as has been stated whore, it is important to begin at this time to prepare the all for the trying adolescent years. Skillful guidance in a creative activity of the younger child will help him contime his creative art work without becoming too disturbed but his own creative art limitations. It has been observed at his approach to creative activity begins to change from a unconscious to the conscious, and that his imaginative study becomes controlled. As his critical awareness of isslf and his abilities increase, he seems to be more interied in the final product in creative activity, rather than in gotivity itself.

It has also been observed that the beginning of two stinct types of sensory reactions to creative experiences evolved. One is the visual, and the other is the haptic, non-visual. The visual type person draws and paints sule and objects as he sees them with his physical eye. He presents objects realistically, paying attention to proporins, color, space, perspective, and places them in their sper environments.

The haptic, or non-visual type of person, is more concerned the himself and his feelings about creative experience. His sections towards an art experience are emotional. He may be fluenced in part by what he sees, but to what he sees he is his own feelings. He becomes a part of the experience, wher than a spectator as the visual type does. He uses only it part of the environment that he feels is necessary and mortant. He is more interested in details or parts of the whet, rather than the whole.

Because of the critical attitude that the student has to-Mark his own activities, it is important to guide him care-Mark in all areas. The creative art activities can be very Mark to the student at this time, since they are a part of Mark natural creative expression. Careful guidance in creative Mark experiences during the eighth and ninth grades will help Mark to reach creative maturity which will develop within him

134 noceptance of his own critical attitude towards his creative norts; it will help him to maintain a confidence in himself; it will act as a healthy outlet for his troublesome emotions.

The Teaching of Art

Many classroom teachers seem to be faced with the following

1. Teachers do not feel secure when confronted with the ssibility of teaching a curriculum area for which they are iprepared. Sometimes they seem to attempt to hide their security and yet defend themselves as responsible teachers holding such opinions as: "I don't know anything about art;" ican't draw a straight line;" or "Art is too messy." They incerely believe that such opinions relieve them of all remsibility of teaching art to their students.

3. They had no art training in their teacher-training Mground.

There are, however, teachers who do have a keen sense of Monsibility towards the development of their children. They Mize that, while they may not know how to teach art, they 135 hould be giving art experiences to their students. They would be to begin, but they seem timid. What can be done, then, thelp teachers overcome their reluctance or timidity in rend to teaching art?

Suggestions for the Teacher Basic understanding.

A Pirst of all, teachers need to realize that all persons are born with the ability to do creative art. The potential talent varies with each individual just as it does for any other talent. The degree of success each person has depends upon potential talent and on the amount of participation and training each student is subjected to. Educators have recognized that art experiences make valuable contributions to the development of students.¹ Art is important, too, as a curriculum area in the educational program, because it can contribute so much to the general curriculum.

People of all ages enroll in art craft classes, eager to develop their own creativeness, and to learn to participate in pleasant and profitable hobbies. Many of these people never develop their talent until they

Arthur I. Gates, and others, <u>Educational Psychology</u> York: The MacWillan Company, 1949), p. 375. reach a high professional level.

p. Teachers need to be assured that learning to teach art is not impossible. Art is not a mysterious area where only the talented are privileged to learn. It is simply a particular kind of knowledge and can be learned by all. Again, the amount of success will depend upon the potential talent, plus the amount of participation and training each person has. There are, however, certain attributes which must be present: (1) a desire to learn; (2) a desire to experiment; (3) a willingness to spend time; and (4) a determination to achieve a high quality of craftsmanship.

(Teachers need to have certain understandings about art as a curriculum area. They are as follows:

1. Art, as any other area in the curriculum, must be meaningful if it is to have any value. It must not be given as mere "busy work," nor must it be an earned privilege. It should be a well-planned learning experience, given regularly to all students.

2. Students' art expressions must be their own original expressions, if they are to have value.

 Art expression is a natural expression for all students. They will enter into an art experience with ease and pleasure.
 Art experiences contribute much to students' general

development.

peachers should have certain basic concepts about teaching art. They are as follows:

- A. Extensive knowledge about art experiences and using art materials is not absolutely necessary; although, of course, it is desirable. Some basic knowledge, plus teacher-experimentation, is all that is necessary with which to begin.
- B. Presenting art experiences to students is done in much the same manner as experiences in other curriculum areas are presented. There must be good organization in the following:
 - 1. Arrangement of school furniture to provide adequate working space and good traffic.
 - 2. Orderly discipline.
 - 3. Convenient storage space for materials.
 - 4. Convenient arrangement of materials when in use.
 - 5. Orderly work habits in using and caring for materials.
 - 6. Orderly clean-up procedure.
 - 7. There must be careful planning. Each art activity program well-planned as to presentation or motivation should consist of:
 - a) Procedure.
 - b) Desired outcomes.

- c) Time allotments.
- d) Evaluation.
- 8. The materials should be planned beforehand.

Suggested Beginnings

otaining information is undoubtedly the first concern of teachers. There are a number of sources available which the teachers may consult. They are as follows:

A Good art education books at libraries. (See the accompanying bibliography).

3. Art education publications, such as:

1. School Arts.

2. Junior Art Activities.

3. The Instructor.

4. Design.

5. Scrapcraft.

6. Arts and Activities.

". Art guides should prove helpful, such as:

1. Education Department, State.

2. Public Library.

3. Curriculum Library.

Art Supervisor or Consultant.

¹. In-service training courses offered to teachers by the school district present valuable information, and actual experience in using materials. Usually, howapplied to the upper grades as well. Art education courses at the colleges and universities also give valuable information.

t How to actually begin teaching art is probably the next concern of teachers. Much can be learned when teachers begin the experiment. Here are some suggestions:

- I. Try out different ways of working with the students; the size of the group, the physical situation, may determine whether the experience will be presented to the whole group or whether it will be presented to smaller groups.
- B. Choose simple materials to begin with. For example, 12" X 18" paper, crayons.
- C. Plan a suggested experience which the students will be familiar with. The choice will depend upon the age group.
- D. Plan a simple presentation or motivation.
- E. Distribute the materials.
- F. Encourage orderly work habits.
- G. Do not give any suggestions to the student about how he is drawing objects. Remember he has his own way of drawing. If a student does ask for help, guide

him in thinking out the problem. I. It is a good idea to keep the students' work for a

short time, displaying a group of them. Display all students' drawings.

- I. Try several experiences similar to the first one. Choose ideas which the students are interested in.
- J. Try another kind of art material. For example, tempera paints; 12" X 18", or 18" X 24" paper, large brushes, long-handled bristle or camel hair.
- I. Plan a simple painting experience based on the interests of the students.

L. Observe the students as they paint.

M. Always encourage students to share their art experiences with the group.

N. Try to go over the paintings and drawings alone to see what can be learned about how the students paint.
Nuch experimentation plus added teacher knowledge will help the teachers become familiar with all the aspects of presenting art experiences to the students. As art programs become a regular part of the curriculum, teachers and students should gain confidence. The experience will be pleasant and satisfying. Teachers will probably realize soon that teaching art is not an impossible task, but a real pleasure. As they gain more knowledge, they can learn how to use art experiences to enrich the curriculum areas.

Suggested Art Experiences for the Four Upper Grades

Materials

Experiences

painting

Large paper: 12" X 18" white 18" X 24" white Tempera Watercolors Brushes (camel hair)

Drawing

Sketching pencils (soft lead) Charcoal Large paper: 12" X 18" white 9" X 12" white

Clay Modeling

Powdered Clay Wet, prepared clay Plaster bats Cloths Colored slips Clear glaze Rolling pin Simple modeling tools old orange wood sticks meat skewers lg" paint brushes

Decorating Design

Tempera paints Brushes Textile paints Stencil paper Stencil cutters Stencil brushes Linoleum cutting tools Free choice paintings as well as those done from suggested ideas.

Experimenting with pencil as a drawing tool. Developing shading techniques, use of texture.

Experimenting with charcoal as a drawing tool. Developing a shading technique, use of texture.

Free experimentation with the materials. Modeling simple, suggested forms, animals, people, and groups.

Simple shapes, some treatment of texture. Learning to use slips and glazes. Firing those pieces that will take firing, if a kiln is available.

Free experimentation with various ways of designing for a specific purpose.

Painting designs on paper.

Materials

pecorating Design (continued)

Linoleum blocks Printing Inks Old sheets of unbleached muslin.

Paper Sculpture

White, colored paper Scissors Paste

Plaster Carving

Plaster of Paris Cardboard boxes Paring knives Sand paper

Wood Carving

l" thick block of wood
Wood carving tools
Balsawood
X-acto knives or
 paring knives
Sand paper

^{lettering}, Poster Making

Lettering pens Black, white, colored inks. White paper Colored paper Tempera paints Brushes

Experiences

Stenciling designs on paper or cloth.

Block Printing designs on paper or cloth.

Making designs for wrapping paper, book covers, or wall hangings.

Experimenting with paper to form interesting three-dimensional designs, animals, people.

Experimenting with plaster of Paris. Block to carve designs or sculpture animals, people, and forms.

Learning to carve designs on objects in relief.

Learning to carve designs on objects in complete three-dimensional form.

Learning to letter; good letter forms to use in making designs, signs, and posters.

Learning to design good posters.

Materials

Experiences

simple Construction

Cardboard; scrap wood Hammers, nails, saws Tempera paints Enamel Shellac, or Varnish Brushes

Experimenting with cardboard and wood to make simple threedimensional objects; building, fences, trees, people, other forms.

Useful in carrying out projects related to units in other curriculum areas.

General Summary

The problem of learning to teach art effectively in the high school is serious today in many systems where there is no special art program. Teachers need much help in learning to mierstand art education and how to teach it.

An effort has been made to present a general view of the field of art education as it applies to the classroom teacher who is responsible for teaching his own art. It is believed that the material contained in this paper will help classroom teachers to: (1) Have a better understanding of art education; (2) Overcome their awe of teaching art; (3) Obtain enough knowledge to begin teaching art. It has been recognized that while this information may help teachers in the beginning, the responsbility for acquiring further knowledge rests with the individwal teacher.

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APPENDIX

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