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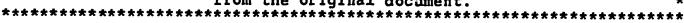
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ABSTRACT

The guide is designed to accompany an art program curriculum guide in order to help teach senior high art and to locate resources and information. Included in the guide are the following titles: "Sample Unit Plans," which include information on theme, approach, objectives, concepts, motivation, resources, study approaches, and evaluation for the program's three aspects of art learning; "Facilities, Equipment, and Materials," which describe the physical resources necessary to accommodate program goals; "Art Displays, Art Shows, and Art Contests," which describe specific opportunities to display art products; "Careers in Art," which list 102 careers; "Glossary," which defines terms appropriate to the curriculum guide; "Resources," which include print and visual sources; "Hazardous Art Materials and Occupational Safety," which include information and resources about the safe use, storage, and disposal of art materials; and "Technographic Media," which explores the potential of emerging technologies. (TRS)





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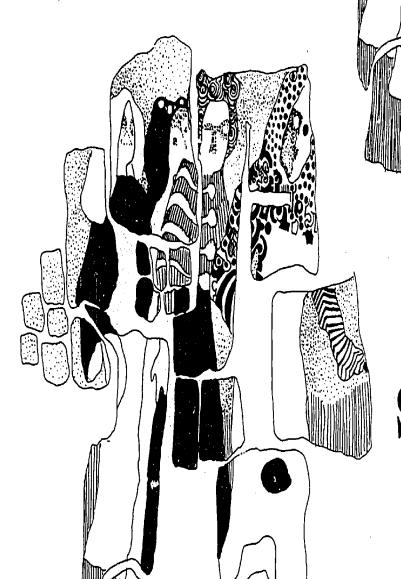
Art 10 **Art 20** Art 30

Art 11 Art 21

Art 31



Teacher Resource 1986

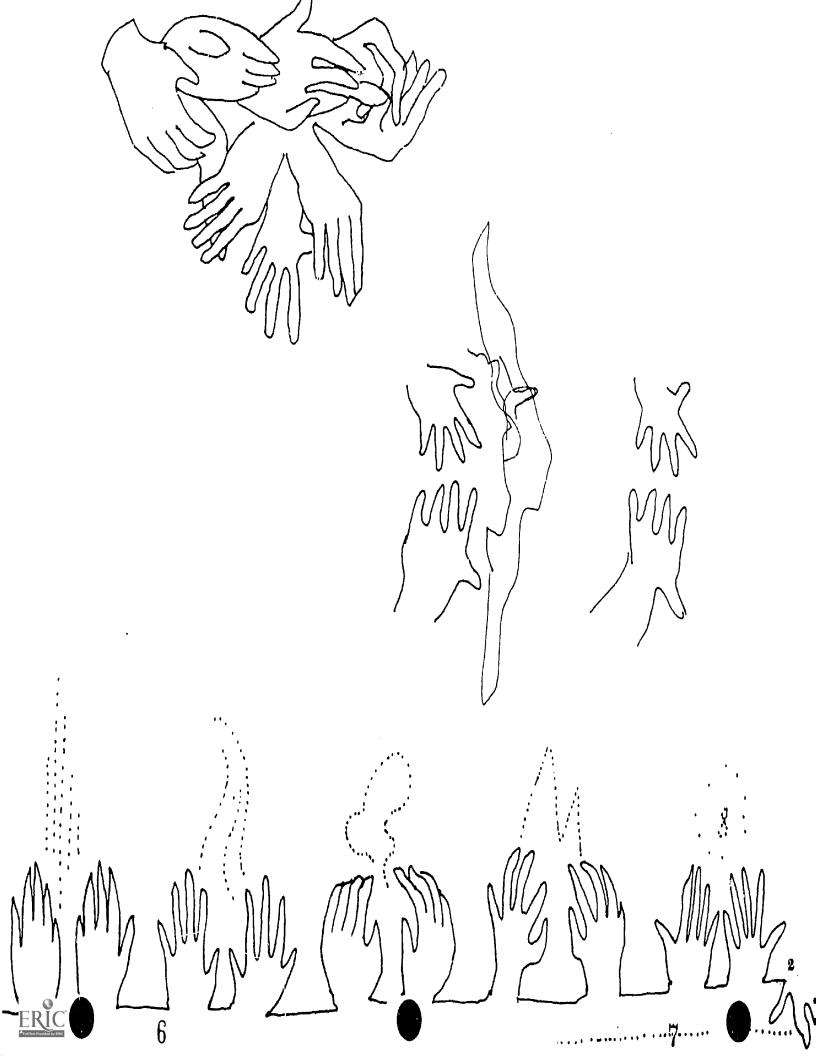


Teacher Resource 1986

This resource is designed to accompany the Art 10, 20, 30 Curriculum Guide and the Art Studies 11, 21, 31 Curriculum Guide. The following items are designed to facilitate the teaching of senior high art and the locating of resources and resource information. Included in this document are the following titles:

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Sample Unit Plans

Sample Unit Plan - Art 10 - "Abstracting from Nature"

Theme:

Compositions: Developing both two- and three-dimensional abstract images from a single subject source.

Approach:

Abstracting from a source. Have students explore the visual qualities of an object, then use that object as a source of abstract images and designs in both two and three dimensions.

(Micetives: Students will:

- extend their knowledge of and familiarity with the elements and principles of design through practice in composing two- and three-dimensional images. (Compositions)
- solve teacher-directed problems of unity and emphasis in creating compositions. (Compositions)
- 3. use the vocabulary of art criticism to develop and accept analyses of their own work. (Compositions)
- 4. be conscious of the emotional impact that is caused and shaped by a work of art. (Compositions)
- 5. investigate the process of abstracting form from a source in order to create objects and images. (Encounters)
- 6. develop and refine drawing skills and styles.(Drawings)

Concepts:

- Natural forms can be used as sources of abstract images and designs.
- Color and value concepts are important components of an artist's compositional skill.
- Unity is achieved by controlling the elements of a composition within the picture plane.
- Describing and discussing media and techniques used in one's own works will develop vocabulary.
- Describing and discussing components of design are part of the process of analyzing one's own work.
- Image making is a personal experience created from ideas and fantasies.
- Artists simplify, exaggerate, and re-arrange parts of objects in their depictions of images.
- Artists select from natural forms in order to develop decorative motifs.

Motivation:

• Collect a variety of natural objects (suggest ones that won't deteriorate over a few weeks): shells, driftwood, eroded stones, seedpods, plants, pine cones, dried flowers, vegetables, bones. Have students examine and handle several objects, noting surface qualities, weight, color shading, signs of growth and decay.

cont....



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SAMPLE UNIT PLANS - Art 10 (cont'd)

- . View works of art that contain organic forms presented in realistic and abstracted images. View examples of functional objects that are designed after organic forms (architecture, jewelry, dishes). View laserdisc images of microscopic organisms, aerial photographs of land forms.
- . Discuss the qualities of line and surface form that characterize natural, as opposed to man-made objects--irregular markings, growth rings, evidence of erosion, pressure, scarring).
- . Have each student select one object which has visual or tactile qualities that intrigues her or This will be their source object for the duration of the unit.

Resources:

- A. Visual -Lalique jewelry and mirror; Slides: Tiffany vase; Klimpt "Park 1903"; O'Keefe "Black Iris", "Banana Flower"; van Gogh "Sunflowers"; works by Aubrey Beardsley, William Morris, Jean Arp; Le Corbusier's Church at Ronchamp; Wright's Guggenheim Museum.
- B. Readings and References -Kranz and Fisher, "The Design Continuum"; Collier, "Form, Space and Vision"; Roukes, "Art Synectics" (page 19), in addition to readings and references listed on the concept

C. Other Resources and Materials -Scientific magazines, magnifying glasses, patterned fabrics, wallpaper and wrapping paper designs, ceramics sculptures.

Study Approaches:

- 1. With the large group, discuss the qualities of the collected natural objects as described motivation.
- Using a duplicated form outline, have students prepare a detailed descriptive analysis and identification of their object as if it were an archaeological find (size, weight, color, shape, noticeable surface markings, place found, smell, etc.).
- 3. Students do a series of renderings of the object:
 - a) particular, detailed realistic renderings
 - b) close-up views of surface textures
 - c) color renderings using pastels, inks, watercolors, cut colored papers, etc.
 - d) drawings that emphasize and exaggerate characteristic features
 - e) repeated pattern designs based on the strongest, dominant shape of the object
 - gesture and contour drawings of the object
 - 3-D study of the object, hand-sized, in clay, wire, papier mache. Work to represent one aspect of the object: mass, surface texture, shape

cont...

SAMPLE UNIT PLANS - Art 10 (cont'd)

- Final Compositions: (Students do both)
 - a) A 2-D color composition in any medium that draws on one of the realistic on stylized renderings done in the preliminary works (could be a poster design, print, mixed media image, fabric design, weaving, painting, collage).
 - b) A 3-D composition in any medium that derives its basic forms and use of space from the original object. This could be a maquette for a garden sculpture or a prototype for a functional object such as a container, piece of furniture, architectural design for a residence or public building. Suggest using word, styrofoam, cardboard, clay, plastic, wire, papier mache.
- 5. Write descriptions of both final compositions that discuss use of materials, interesting visual details, problems of composition, elements of design brought into play, student's personal preferences for parts of the project.
- 6. Critique: Display each student's 2-D and 3-D compositions with the original object. Each student has three minutes to describe the choices he or she made in emphasizing certain aspects of the original object. Fellow students have opportunities to ask questions.

Duration: Six weeks plus.

Evaluation:

Evaluate the whole set of works of each student - preliminary drawings, color renderings, written analyses, descriptions, final 2-D and 3-D projects.

Use checklists and student-teacher conferences. Works should show evidence of:

- use of correct terms to describe materials and elements of design in written work
- efforts to use a variety of drawing techniques
- efforts to use emphasis and exaggeration
- careful, expressive use of color
- carefully developed relationship between realistic and abstract renderings
- completion of all preliminary and final requirements of the unit

In critique discussions, listen for comments that use vocabulary of design elements; ligiten for evidence of students thinking about the ways artists and designers use organic forms as inspiration for their work.

NOTE: The boxes on the following charts indicate objectives and concepts used in SAMPLE UNIT PLAN - ART 10 - "Abstracting from Nature".

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Objectives and Concepts Art 10

Drawings

STUDENTS WHILE

lecord

COMBINE DESCRIPTION, EXPRESSION AND COCULTION IN THE DRAWING PROCESS.

Concepts:

- A. Subject matter and expressive intention can be depicted with a variety of notarional marks.
- B. The expressive content of drawings is affected by the drawing media selected.

nvestigate

DEVELOP AND REFINE DRAWING SKILLS AND STYLES.

Concepts:

- A. A change in drawing techniques can express a different point of view about the same subject matter.
- B. Tactile qualities of surfaces can be rendered through controlled use of line.
- C. Linear perspective is a representational device that gives the illusion of three dimensional pictorial space.
- D. Natural forms can be used as sources of abstract images and designs.

Compositions

STUDENTS WILL:

Components

EXTEND THEIR KNOWLEDGE OF AND FAMILIARITY WITH THE ELEMENTS AND PRINCIPLES OF DESIGN THROUGH PRACTICE IN COMPOSING TWO AND THREE DIMENSIONAL IMAGES.

Concepts:

- Color and value concepts are important components of an artist's compositional skill.
- B. Positive and negative space are essential to the description of two and three dimensional forms.

Relationships 1

SOLVE TEACHER-DIRECTED PROBLEMS OF UNITY AND EMPHASIS IN CREATING COMPOSITIONS.

Concepts:

- A. Compositions use positioning and grouping of subjects for different meanings and emphasis.
- B. Unity is achieved by controlling the elements of a composition within the picture plane.

Relationships 2

SOLVE TEACHER-DIRECTED SPATIAL PROBLEMS OF MOVEMENT AND DIRECTION IN THE CREATION OF COMPOSITIONS.

Concept:

A. Movement, rhythm, and direction are used in recording humans and their activities.

Encounters

STUDENTS WILL:

Sources of Images

INVESTIGATE THE PROCESS OF ABSTRACTING FORM FROM A SOURCE IN ORDER TO CREATE OBJECTS AND IMAGES.

Concepts:

- Artists simplify, exaggerate, and rearrange parts of objects in their depictions of images.
- B. Artists select from natural forms in order to develop decorative motifs.

Transformations Through Time

COMPAPE THE IMAGE CONTENT OF CERTAIN PERIODS.

Concepts:

- Works of art contain themes and images which reflect various personal and social conditions.
- B. Technology has an effect on materials used in image-making.

Impact of Images

BECOME AWARE OF THE RELATIONSHIP BETWEEN FUNCTION AND FORM IN ARTISTIC PRODUCTIONS.

Concepts:

- A. Simplified form communicates the purpose and function of designed objects.
- B. The function of an art work can be emphasized by its decoration.



Communicate

INVESTIGATE VARIETIES OF EXPRESSION IN MAKING IMAGES.

Concepts:

- A. Drawings can express the artist's concern for social conditions.
- B. A drawing can be a formal analytical description of an object.

Articulate and Evaluate

USE THE VOCABULARY AND TECHNIQUES OF ART CRITICISM TO ANALYZE THEIR OWN WORKS.

Concept:

A. Discussing the components of composition is part of learning to talk about art.

Relationships 3

USE THE VOCABULARY OF ART CRITICISM TO DEVELOP AND ACCEPT ANALYSES OF THEIR OWN WORK.

Concepts:

- A. Describing and discussing media and techniques used in one's own works will develop vocabulary.
- B. Describing and discussing components of design are part of the process of analyzing one's own work.

Organizations 1

EXPERIMENT WITH VARIOUS REPRESENTATIONAL FORMATS.

Concept:

A. Various materials after representational formats and processes used in achieving certain intended effects.

Organizations 2

BE CONSCIOUS OF THE EMOTIONAL IMPACT THAT IS CAUSED AND SHAPED BY A WORK OF ART.

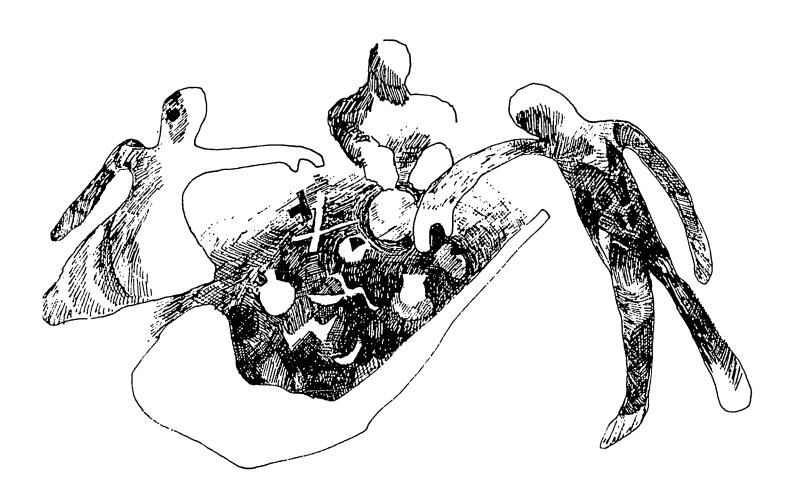
Concepts:

- A. Image making is a personal experience created from ideas and fantasies.
- B. Mood is created by tools 1 ke atmospheric perspective.

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SAMPLE UNIT PLANS

Sample Unit Plan - Art 20. "The Isms' of Modern Art"

Theme:

Drawings: Understanding stylistic movements and exploring personal styles.

Approach:

Students explore their own personal style characteristics by first examining those of different artists of the 19th and 20th centuries, then creating their own expressive drawing statements. Critical analysis and personal expression will be important goals.

Objectives: Students will:

- explore a personal selection of expressions.
 (Drawings)
- 2. use the vocabulary and techniques of art criticism to interpret and evaluate both their own works and the works of others. (Drawings)
- 3. acquire a repertoire of visual skills useful for the comprehension of different art forms. (Encounters)

Concepts:

- Personally selected themes can provide images for expressive drawing investigations.
- Understanding styles or artistic movements related to visual studies is part of developing critical abilities.

- Meaning is expressed in works of art through subject choice, media selection, and design element emphasis.
- Art forms may be classified according to stylistic characteristics.
- The relationships of different features of a work of art may be compared to the total effect of the work.
- Artists depict subjects from different points of view.

Motivation:

Students imagine that they are art connoisseurs and collectors attending the sale of some famous works of art. Using slides and reproductions of works of Impressionist, Surrealist, Cubist and Fauvist works of art, conduct a mock art auction. Have class members use their critical analysis skills to justify their bids. Students work in teams, pairs or individually. They can have a few days to research the works for sale and prepare explanations for wanting to acquire the works they choose.

During the introduction to this phase of the unit, teachers should:

- discuss the origins of the various styles.
- describe the artists represented.
- discuss the preferred subject matter of those artists.
- discuss the theme, mood, purpose and compositional features of the styles and the particular works "for sale".

Cont'd

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SAMPLE UNIT PLANS - Art 20 (cont'd)

Resources:

A. Visual -

Works of Salvador Dali, Henri Matisse, Pablo Picasso, Joan Miro, Paul Klee, Max Ernst, Georges Braque, Edouard Manet, Claude Monet, Edgar Degas, Auguste Renoir, Georges Seurat. Posters of their works. Include both drawings and paintings by these artists.

- B. Readings and References Elsen, A. "Purposes of Art"; Richardson, "Art:
 The Way It Is"; Simons and Winer, "Drawing: The
 Creative Process". Art books and books about the
 individual artists listed above; films and stories
 about the artists or movements.
- C. Museums and Galleries -Class visits to current and permanent exhibits of local art galleries. Engage help of education officers, curators or gallery owners to explain works.

Study Approaches:

- 1. Art auction exercise described in motivation section.
- 2. Students select a style (Surrealist, Impressionist, Fauvist, Cubist). Using their preferred subject matter, they develop a set of drawings and a painting that demonstrate the characteristics of that style.
- 3. Students then do a series of drawings and paintings that emphasize their own personal stylistic signature, with their own preferred subjects and media.

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- 4. The works of art are submitted with a personal statement describing the characteristics of the students' own style, the artists who influenced him or her, reasons for preferring particular media and a description of the student's goals for personal stylistic development.
- 5. Critique Students make short presentation describing their stylistic traits, comparing those with the style movements they explored in the earlier study approach, and field questions from the class about problems, interesting discoveries, etc.

Duration: Four weeks

Evaluation:

Evidence -

Auction discussions, personal statements, critique presentation, set of student works.

Assess for evidence of understanding of comparative qualities of the different "isms" and how the students1 own works contain personal style well characteristics as as influences from contemporary artists. Use checklists, written work and student-teacher interviews as evaluation tools. Test students' ability to recognize and discuss dominant aspects of a style or movement by presenting slides to them for written analysis. Hold small group or teacher-student discussions to evaluate students' knowledge of their own personal expressive style.

cont...





Objectives and Concepts Art 20

Drawings

STUDENTS WILL:

Record

DRAW FOR CONFIDENCE AND CONSOLIDATION OF HEAD TO HAND SKILLS.

Concepts:

- A. Sketching and composing skills can be developed by drawing from representational sources.
- B. Developing expertise in one particular drawing medium may further develop personal competence.
- C. Combining mental images and representational images in drawing may provide a challenge to an individual's drawing skills.

Investigate

DEVELOP AND REFINE DRAWING SKILLS AND STYLES.

Concepts:

- A. Points of view can vary according to the expressive purposes of the drawing.
- B. Partial delineations demonstrate a control of space and form by the use of implied line.
- C. Control of proportion and perspective enhances the realism of subject matter in drawing.

Compositions

STUDENTS WILL:

Composents

USE NON-TRADITIONAL APPROACHES TO CREATE COMPOSITIONS IN BOTH TWO AND THREE DIMENSIONS.

Concepts:

- A. The use of non-traditional media affects the development of a two or three dimensional object.
- B. The exploration of existing technology may influence the development of two and three dimensional images.
- C. Chance occurrences or accidental outcomes can influence the making of a work of art.

Relationships 1

SOLVE TEACHER AND STUDENT DEVELOPED PROBLEMS BY VARYING THE DOMINANCE OF DESIGN ELEMENTS FOR SPECIFIC VISUAL EFFECTS.

Concepts:

- A. Meaning in composition is affected by reversing or distorting positive and negative elements.
- B. Exaggerating, distorting, and rearranging parts of images are means of solving visual problems.
- C. Shifting perspective or changing the point of view are means of solving visual problems.

Encounters

STUDENTS WILL:

Sources of Images

RECOGNIZE THAT WHILE THE SOURCES OF IMAGES ARE UNIVERSAL, THE FORMATION OF AN IMAGE IS INFLUENCED BY THE ARTIST'S CHOICE OF MEDIUM, THE TIME AND THE CULTURE.

Concepts:

- A. Different periods of history yield different interpretations of the same subject or theme.
- B. Artists and craftspeople use the possibilities and limitations of different materials to develop imagery.
- C. Different cultures exhibit different preferences for forms, colors and materials in their artifacts.

Transformations Through Time

INVESTIGATE THE IMPACT OF TECHNOLOGY ON THE INTENTIONS AND PRODUCTIONS OF THE ARTIST.

Concepts:

- A. The adoption of a new medium will effect change in an artist's work.
- B. Technology has an impact on the artist's role in modern society.
- C. Technology has an effect on materials and imagery used in modern sculpture and painting.





Communicate

EXPLORE A PERSONAL SELECTION OF EXPRESSIONS.

Concept:

A. Personally selected themes can provide images for expressive drawing investigations.

Articulate and Evaluate

USE THE VOCABULARY AND TECHNIQUES OF ART CRITICISM TO INTERPRET AND EVALUATE BOTH THEIR OWN WORKS AND THE WORKS OF OTHERS.

Concepts:

- A. Understanding styles or artistic movements related to visual studies is part of developing critical abilities.
- B. Discussion of the compositional relationships and effectiveness of components is part of learning to interpret one's own art work.
- C. Identified similarities in art works can enhance interpretive discussions of concerns, themes, subjects or treatments.

Relationships 2

USE VOCABULARY AND TECHNIQUES OF ART CRITICISM TO INTERPRET AND EVALUATE BOTH THEIR OWN WORKS AND THE WORKS OF OTHERS.

Concepts:

- A. Meaning is expressed in works of art through subject choice, media selection, and design element emphasis.
- B. Art forms may be classified according to stylistic characteristics.

Organizations

DEMONSTRATE CONTROL OVER VARIOUS COMPONENTS OF COMPOSITION.

Concepts:

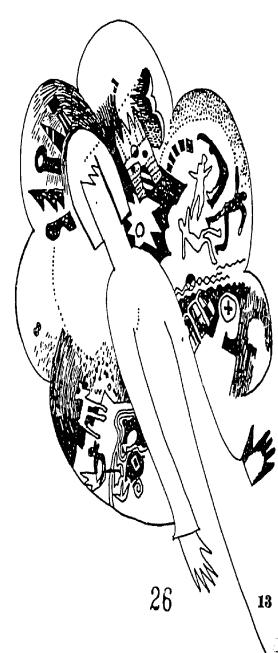
- A. Developing several approaches to a single problem can demonstrate a refinement of organization and segucture in composition.
- B. An important aim of the artist is to develop compositional skills.

Impact of Images

ACQUIRE A REPERTOIRE OF VISUAL SKILLS USEFUL FOR THE COMPREHENSION OF DIFFERENT ART FORMS.

Concepts:

- A. The relationships of different features of a work of art may be compared to the total effect of the work.
- B. Artists depict subjects from different points of view.
- C. Throughout history a wide range of media and techniques has been used to make art.





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Sample Unit Plan - Art 11. "The Art of Belief"

Theme:

The power of the Artifact: Now peoples' beliefs are expressed in their art forms.

Approach:

A comparative analysis of art forms that express strong cultural meaning (religious meaning) in different cultures, including contemporary. Students study and research the rituals and events represented by the architecture, painting, sculpture, and decoration of temples, churches and shrines in several different cultures. They engage in group projects for presentation, focusing on a single selected culture.

Objectives: Students will:

- consider artifacts which transmit different themes, meanings, beliefs and values of people in various times and cultures. (Function of Art)
- 2. consider the characteristic styles attributed to various cultures and historic periods as they affect the way that culture or period is identified. (Creation of Art)
- 3. be able to describe and characterize visual features of artifacts such as subjects, media and design. (Appreciation of Art)
- 4. analyze what makes an artifact powerful over time and across cultures. (Appreciation of Art)

Concepts:

- Beliefs and deities are treated through artifacts such as movements, icons and religious architecture.
- Comparisons between artifacts of two different cultures reveal distinguishing characteristics of style.
- Recognizing and describing the kind of media of artifacts is part of understanding both historic and contemporary artifacts.
- Recognizing and describing the subject matter and design components of artifacts is part of understanding both historic and contemporary artifacts.
- . Different symbols and objects from different societies often have similar meanings.

Motivation:

 Large group presentation: a) Film, video or reading from a novel that portrays a religious ceremony from an ancient culture - Egyptian, Greek, Roman, Far Eastern. Laserdisc, slide and photographic images of religious architecture, sculpture, tomb decoration, painting, costumes from the above cultures plus Byzantine, Gothic, Renaissance, African, etc. (whatever your library and resources provide); b) Discussion that brings out commonalities of form in these different artifacts and ceremonies. splendour, ceremony, visual symbolism, personal

cont....



and architectural adornment. (See individual concept pages for specific item to study.)

Note: The cultural comparison to be made in this unit involves discussions about the meanings and values attached to different religious artifacts and beliefs. This material could be sensitive for some class members. It is important that teachers stress the fact that all cultures have identifying traits and symbols, and that tolerance and understanding of the beliefs of others is an inherent goal of the Arts Studies program.

Resources:

- A. Visual -Films, slides, laser disc visuals, muslum artifacts, novels, movies that portray religious and beliefs from other times and cultures.
- B. Readings and References -Elsen, Purposes of Art; Cunningham and Reich, Culture and Values, Vol. I and II; Clark. Civilization; books about the specific cultures selected for study (teachers should review library holdings before starting unit).

Study Approaches:

1. Group research project -Group of three to five students selects a culture or period to be studied in depth. Their assignment is to develop an imaginative class presentation that explains the belief system of a culture and how that system is portrayed through its art forms. They will be required to research and report on the following topics: churches or temples, monuments, icons, important symbols, rituals, costumes,

records. They must learn and use the correct terminology to describe the techniques, materials, tools and styles that are characteristic of these They must describe and analyze the forms. deities, how they are represented in the culture, and how the religious art is incorporated into the culture. But, the key element is an imaginative presentation: they can develop a play, scrapbook, slidetape presentation, scale models, diaries, simulated archaeological dig, simulated museum show. They must present and explain all the major visual features of the religion of that culture, and describe how it fits into the culture as a whole (e.g., Egypt's God - kings were both deities and monarchs).

2. Group Presentation -

Each group presents its material to the class. All members must participate in the presentation. A printed overview or class notes must be provided to give each observer access to the terminology and descriptive details.

3. Final Discussion -

After all presentations are completed, comparative analysis can be conducted in large group to identify the differences and similarities between the various ages on the basis of the original topics - churches and temples, monuments, icons, important symbols, costumes, rituals, records. Class can be asked to speculate on how the beliefs of our culture will be interpreted by archaeologists and art historians of the distant Individual written statements could be required here.

Duration: Four weeks plus

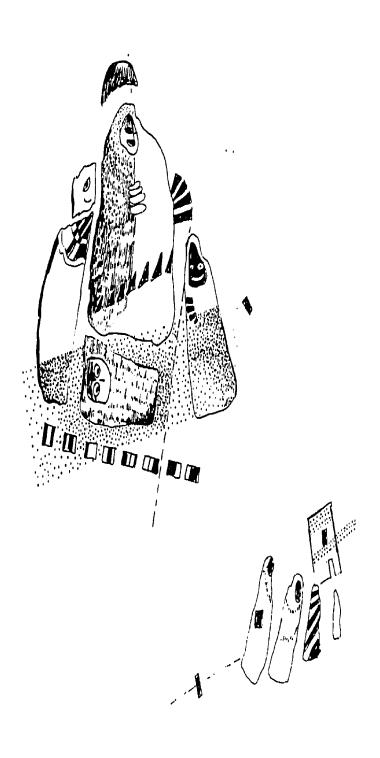
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SAMPLE UNIT PLANS - Art 11 (cont'd)

Evaluation:

Evaluation of individual student performance: Use self-evaluation sheets to assess participation in group projects, use anecdotal records, checklists and individual written statements. Quizzes and written paragraph tests could be used to assess students' understanding of specific terms. Look for evidence of increased skill in identifying and describing the subject matter, style, techniques and media of historical art works. Look for increased willingness to make analytical and descriptive comments about artifacts and art ideas in large and small group dicussions.





Objectives and Concepts Art 11

Function

ST. TS WILL:

consider artifacts which transmit different themes, meanings, beliefs and values of people in various times and cultures

Concepts:

- A. The themes of Life and Death are treated through artifacts such as tomb paintings, fertility gods, masks and totems and guardien figures.
- B. Themes of Dreams and Pantasies are treated through artifacts such as painting, advertising art, science fiction and surrealism.
- C. Beliefs and Deities are treated through artifact; such as monuments and icons and religious architecture.
- D. The themes of Authority and Power are treated through artifacts such as crowns, uniforms, flags, emblems and public architecture.
- E. Social position is identified through artifacts such as symbols of office, profession, status, rank, degrees or honors, sexuality and heroism.
- F. Artifacts serve personal functions when they give adornment, indicate mourning, rites of passage or celebration, give protection, suggest "ferocity", or personal power.

Creation

STUDENTS WILL:

- consider the nature of artists' styles and their effect on the character of artifacts

Concepts:

- A. The individual nature of style is used to identify the work of individual artists:-features of an artist's works makes them recognizable as the products of that artist only.
- B. An artist's work changes in nature over his/her lifetime.
- consider the characteristic styles attributed to various cultures and historic periods as they affect the way that culture or period is identified

Concepts:

- Periods of art history can be identified by characteristic design features and styles.
- B. Comparisons between artifacts of two different cultures reveal distinguishing characteristics of style.
- learn how artists work with media: they will acquire the ability to distinguish materials and processes used in various kinds of artifacts

Appreciation

STUDENTS WILL:

 be able to describe and characterize visual features of artifacts such as subjects, media and design

Concepts:

- A. Recognizing and describing the kind and modia of artifacts is part of the understanding both historic and contemporary artifacts.
- B. Recognizing and describing the subject matter and design components of artifacts is part of understanding both historic and contemporary artifacts.
- be able to analyze relationships among the visual features of artifacts such as subjects, media and design, and attribute meaning from this analysis

Concepts:

- A. Making inferences about the meanings of art works is part of the process of understanding both 'storic and contemporary artifacts.
- B. D. '... the ability to classify works of art according to an analysis of style charactristics is part of the process of understanding both historic and contemporary artifacts.
- consider how people react differently toward a work of art depending upon past experience



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- G. Art serves play and recreations functions as displayed in objects used in games such as chessmen, cards, dolls, puppets and toys.
- become aware of the function of artifacts to describe and record phenomena

Concepts:

- A. Artifacts can describe and record events.
- B. Artifacts can describe and record places.
- C. Artifacts can describe and record people.
- D. Artifacts can describe and record nature.
- E. Artifacts can describe and record traditions.
- F. Artifacts can describe and record ideas.
- become aware of the function of artifacts for the visual enhancement of people and their environments

Concepts:

- Artifacts have the power to enhance ourselves.
- B. Artifacts have the power to enhance our communities.
- C. Artifacts have the power to enhance our homes and environments.

Concepta:

- A. Artifacts contain evidence of techniques that comprise the skills of the artist.
- B. Character, and artistic tool; it attocks both writed and viewer
- observe how artists achieve different effects with the elements and principles of composition

Concepts:

- A. The artist orders elements of design in developing a composition.
- B. The components of formal composition include principles and conventions of design.

Concepta:

- A wide variation in preference for art forms or features of art can be found among individuals.
- B. Heaning in art work is perceived differently by people with different attitudes toward the subject matter.
- analyse what makes an artifact powerful over time and across cultures

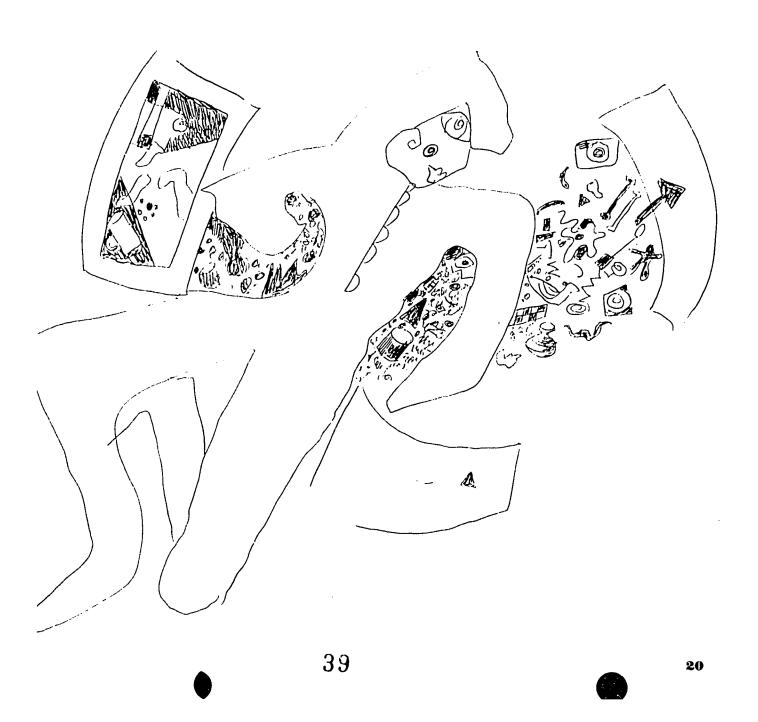
Concepts:

- A. The power or meaning of an artifact can be located in the artifact, its culture, its creator or its beholder.
- B. Different symbols and objects from different societies often have similar meanings.
- become aware of the range and wariety of forms of artistic expression

Concepts:

A. Learning the styles and purposes of the range of contemporary artifacts is part of the process of becoming a knowledgeable viewer.







Sample Unit Plan: The Art 30 student is expected to participate actively in the decision making regarding her/his choice of art problems and media throughout the course. Characteristics one might expect to see in Art 30 students are: increasing responsibility for artistic development, increasing competence in at least two media, expanding critical awareness, and increasing dedication to the search for visual ideas.

The unit plan that follows is in three parts. Part A is a suggestion for motivational activities directed by the teacher. Part B is a sample unit plan devised by a student. Part C is a list of objectives and concepts that the teacher street in the student plan. Part C may be selected by the students, as well. It is important that Part C be used by the student and student to identify readings, visual resources, study approaches, evaluation approaches and evaluation criteria for the students' use in their unit.

Part A: Teacher Directed

Theme: Initiating Student Planning

Approach: Teacher structures first part of unit, so that students can explore how to select visual problems, media to be considered, developing possible image banks, and how to sequence a series of investigations and develop evaluative criteria.

Sijectives and Concepts:

. Drawing . Record

STUDENTS WILL ACHIEVE PERSONAL STYLE.

Concept: Individual treatment of similar subjects or thematic matter may serve to identify individual artists.

. Composition . Components

STUDENTS WILL USE PERSONAL EXPERIENCES AS SOURCES FOR IMAGE MAKING.

Concept: An important aim of the artist is the selection and presentation of perceptions, conceptions and experience as visual content for art work.

Evaluation Approaches:

Observe participation in discussion. Note ability to articulate artistic problem delineation processes. Recognize that individual responses to problems set is a credible artistic and personal goal. Record individual goals and artistic interests.

Acquire comments re: student's creative decisions. Observe and note variety of material student selects to "bounce off", or review.

Note selection processes.

Evaluation Criteria:

Commitment to personal methods of working and content selection increases.

A commitment to a theme or series of explorations is made. Media experiences are selected (2-D/3-D). A more intuitive and a more critical approach to problem selection is developed in the student.

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Objectives and Concepts:

(cont'd)

. Encounters . Impact of Images

STUDENTS WILL QUESTION SOURCES OF IMAGES THAT ARE PERSONALLY RELEVANT IN SIGNIFICANCE TO THEM IN CONTEMPORARY CULTURE.

Concept: Imagery can depict an important local political or social issue.

. Compositions . Relationships 2

STUDENTS WILL USE THE VOCABULARY AND TECHNIQUES OF ART CRITICISM TO ANALYZE AND EVALUATE THEIR OWN WORK IN RELATION TO THE WORKS OF PROFESSIONAL ARTISTS.

Concept: Evaluative criteria such as originality, organization, techniques, function and clarity of meaning may be applied to works of art.

Evaluation Approaches:

Look for personal records of attended art events throughout unit.

Review with students collection of artistic responses and news items throughout unit. (Actual selections in next unit may/may not occur.)

Observe spoken/written comments, looking for descriptive, analytic and interpretative comments, throughout unit.

Acquire from students kinds of criteria and formats to be used during unit individually.

Establish a method of group criticism to look at thematic and technical development in both a 2-D and 3-D work.

Presentation of one critical assignment.

Evaluation Criteria:

Analysis of social or political events occurs. Artistic interpretation of these events increases. Art works understood to be a useful way of commenting on a situation.

Students are able to evaluate their own and others' works according to a set of agreed upon criteria.

Students use art
criticism model (oral
and written).
Priorities in personal
critical evaluations are
evident and defended.



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Motivation:

· Drawing · Record

Have students view a film. In discussion, identify all the ways these artists found ideas, explored ideas and used media.

Have students write in journal about immediate or ongoing artistic interests and goals. (Brief)

Review different methods of developing visual problems:

- a) synectics
- b) formal investigation
- c) personal conflict/expression
- d) stylistic interest, etc.

Emphasize integrity, individual interpretation, own viewpoint of artist (student). Personal choices within a group are still identifiable as unique works of art.

· Compositions · Components

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Have students collect portfolios, sketchbooks, journals or diaries kept over the 2-3 year high school experience. Identify themes (personal to global). Look for especially satisfying combinations of idea/problem and media use.

Review new ideas as generated by recent lists in journal of interests; participate in one of synectics et al approaches and record observations, quirks, ideas, etc.

Note primary visual interests and media interest in journal.

Resources:

ACCESS: Images and Things: "People Working"

Journal

- a) Roukes, N. Art Synectics.
- b) Richardson, J.A. Art: The Way It Is. pp. 175-201.
- c) van Gogh, V. series of slides.
- d) Richardson, J.A. Art: The Way It Is. pp. 223-255 OR, slides of selected art movement.

Journal
Previous work

Journal

As needed, in small groups or individually.



Motivation:

• Encounters . Impact of Images (cont'd)

To continue developing a storehouse of potential investigations (later in year), students can be asked to keep a record of local art events that interest them/that they attended (discussion, notes, invites, catalogues, etc.).

Particular public artistic responses to local news can be collected.

News items that move, bother, outrage, please, humor, amuse, confound the students can be collected, especially local or regional, as these may suggest some visual expression.

. Compositions . Relationships 2

 Discussion of kinds of evaluations and content of evaluations to be used by student and teacher throughout unit. Both spoken and written methods are reviewed.

Review the artist/doer/consumer/critic model, and emphasis on different aspects of art making.

Technical goals (media/skills) can be reviewed individually/groups.

Critical assignments/project possibilities reviewed.

Resources:

Journal/Sketchbook

Images if available
Newspapers
T.V. reports recorded
Magazines
Radio items
Advertising
Group information e.g., curling rink
Slides of an artist's work that responded to
local situation; e.g., Aislin, Bierman,
Kollwitz, Moore
Murals
Folk artists of the area

Ocvirk, et al. Art Fundamentals.

Appendix - Art Criticism

Artist graffiti

Media books as appropriate

Research material as appropriate (textual and visual).





Sample Unit Plan: At the conclusion of Part A, teachers could gather the following kinds of information from each student.

Part B: Student Plan

Theme: People - Alone, Together

Approach: I want to explore people in social groups - how they look, act, what they are really thinking. Can you show people's feelings and thoughts?

Influences That Help Me to Select My Theme: (artists, books, people, personal experiences, etc.):

- . My own studies, sketchbooks, last year's painting project.
- Thinking about how people can see the same event differently.

Mcdia: (2-D, 3-D, Previous Experience)

- drawing materials, yes
- . b/w photographs, no
- . oil paints, yes
- . clay, yes

Encounters Project:

• I would like to select three artists, find out why they worked with people/images the way they did, and analyze their formal compositions for the effects they achieved. I may write it, or may present it to the class.

Studio Work:

- Series of drawings to study proportion and movement.
- Take a series of b/w photographs of people in social groups to catch people's expressions maybe interview the people, too, to find out what they were thinking about.
- . Oil painting (1m \times .75m) based on my drawings and photographs.
- . Clay sculpture (base 20cm sq.) based on my drawings and photographs.

Evaluation Approaches: (criteria decided in discussion with teacher and other students)

- . Use of materials
- . Journal records of progress, events attended,
- . Group critique of art works
- . Criticism of theme and formal qualities in art works by self
- . Teacher's critique of art works
- . Research project.

(Proportion or weight to be given each part of the evaluation, to be discussed.)



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Sample Unit plan: After reviewing the student's unit plan, the teacher may identify the objectives and concepts suggested by the unit plan. This identification will assist the teacher in ensuring that all students incorporate Drawings, Compositions and Encounters objectives in their art experience. The identification will also help students to gather readings, visual resources or study approaches pertinent to their theme, and may further elaborate evaluation approaches and criteria.

Part C: Teacher Identification of Objectives and Concepts

Theme: People - Alone, Together

Objectives and Concepts:

Further Resources:

. Compositions . Relationships 2 Concept B

(reading and visual as required)

STUDENTS WILL USE THE VOCABULARY AND TECHNIQUES OF ART CRITICISM TO ANALYZE AND EVALUATE THEIR OWN WORK IN RELATION TO THE WORKS OF PROFESSIONAL ARTISTS.

Concept: Art works may be analyzed for personal, social, historic or artistic significance.

. Encounters . Sources of Images Concept A

Further Study Approaches:

STUDENTS WILL RESEARCH SELECTED ARTISTS AND PERIODS TO DISCOVER FACTORS IN THE ARTISTS' ENVIRONMENTS THAT INFLUENCED THEIR PERSONAL VISION.

(as required)

Concept: personal situations and events in artists' lives affect their personal visions and work.

. Encounters . Impact of Images Concept B

Further Evalution Approaches and Criteria:

STUDENTS WILL QUESTION SOURCES OF IMAGES THAT ARE PERSONALLY RELEVANT OR SIGNIFICANT TO THEM IN CONTEMPORARY CULTURE.

(as required)

Concept: Imagery can depict important aspects of a student's own life.



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Objectives and Concepts: (Cont'd)

. Drawings . Communicate Concept A

STUDENTS WILL EXHIBIT A PERSONAL STYLE THROUGH IN-DEPTH STUDIES.

Concept: Recording the development of visual ideas in a consistent manner is a part of developing personal style.

. Compositions . Components Concept B

STUDENTS WILL USE PERSONAL EXPERIENCE AS SOURCES FOR IMAGE MAKING.

Concept: Planned and Spontaneous methods of working are ways of developing images.

. Compositions . Organizations Concept C

STUDENTS WILL DEVELOP A PORTFOLIO OF WORKS WHICH WILL REPRESENT THEIR PERSONAL STYLE.

Concept: Personal preference for a medium that influences visual problem-solving methods.

. Drawing . Communicate Concept B

STUDENTS WILL EXHIBIT A PERSONAL STYLE THROUGH IN-DEPTH STUDIES.

Concept: A series of complete compositions presented for public display provides a visual statement about an artist.



Objectives and Concepts Art 30

Drawings

STUDENTS WILL:

Record

ACHIEVE PERSONAL STYLE.

Concept:

A. Individual treatments of similar subjects or themes may serve to identify individual artists.

Investigate

DEVELOP AND REFINE DRAWING SKILLS AND STYLES.

Concepts:

- A. A repertoire of drawing techniques is needed to express visual ideas.
- B. Explorations of a technical or creative nature may lead individuals into highly personalized work sessions.

Communicate

EXHIBIT A PERSONAL STYLE THROUGH IN-DEPTH STUDIES.

Concepts:

- A. Recording the development of visual ideas in a consistent manner is a part of developing personal style.
- B. A series of complete compositions presented for public display provides a visual statement about an artist.

Compositions

STUDENTS WILL:

Components

USE PERSONAL EXPERIENCES AS SOURCES FOR IMAGE MAKING.

Concepts:

- A. The selection and presentation of perceptions, conceptions, and experiences as visual content for art works is an important aim of the artist.
- B. Planned and spontaneous methods of working are ways of developing visual images.
- C. Color modifies the experience or idea presented in visual form.

Relationships 1

DEVELOP AND SOLVE DESIGN PROBLEMS.

Concept:

A. Individually devised design problems may lead to highly personalized works.

Relationships 2

USE THE VOCABULARY AND TECHNIQUES OF ART CRITICISM TO ANALYZE AND EVALUATE THEIR OWN WORKS IN PELATION TO THE WORKS OF PROFESSIONAL ARTISTS.

Concepts:

A. Criteria such as originality, organization, techniques, function, and clarity of meaning may be applied in evaluating works of art.

Encounters

STUDENTS WILL:

Sources of Images

RESEARCH SELECTED ARTISTS AND PERIODS TO DISCOVER FACTORS IN THE ARTISTS' ENVIRONMENTS THAT INFLUENCE THEIR PERSONAL VISIONS.

Concepts:

- A. Personal situations and events in Artises' lives affect their personal visions and work.
- B. Mistorical events and society's norms have an effect on an artist's way of life and work.

Transformations Through Time

ANALYZE THE FACTORS THAT GENERATE A WORK OF ART OR AN ARTISTIC MOVEMENT: THE EXPERIENCES OF THE ARTISTS AND THE IMPACT OF THE CULTURE.

Concepts:

- A. A specific artistic movement and its works of art are influenced by the members' philosophic theme, stylistic identity, and relationship to the community in which they exist.
- B. A specific artistic movement and its works of art influence later artistic movements.









Articulate and Evaluate

USE THE VOCABULARY AND TECHNIQUES OF ART CRITICISM TO ANALYZE AND EVALUATE THEIR OWN WORKS IN RELATION TO THE WORKS OF PROFESSIONAL ARTISTS.

Concepts:

- A. An understanding of major 20th Century artists and movements adds to the ability to evaluate one's own work.
- B. Identification of similarities and differences between the students and professional artists enhances the students' analysis of their own work.
- C. The ability to discriminate between subjective response and an analytic response enhances analysis of one's work.

B. Art works may be analyzed for personal, social, historic, or artistic significance.

Organizations

DEVELOP A PORTFOLIO OF WORKS WHICH WILL REPRESENT THEIR PERSONAL STYLE.

Concepts:

- A. Artistic concerns and styles will determine the conception and the organization of images.
- B. Personal preference for a medium influences visual problem-solving methods.

Impact of Images

QUESTION SOURCES OF IMAGES THAT ARE PERSONALLY RELEVANT OR SIGNIFICANT TO THEM IN CONTEMPORARY CULTURE.

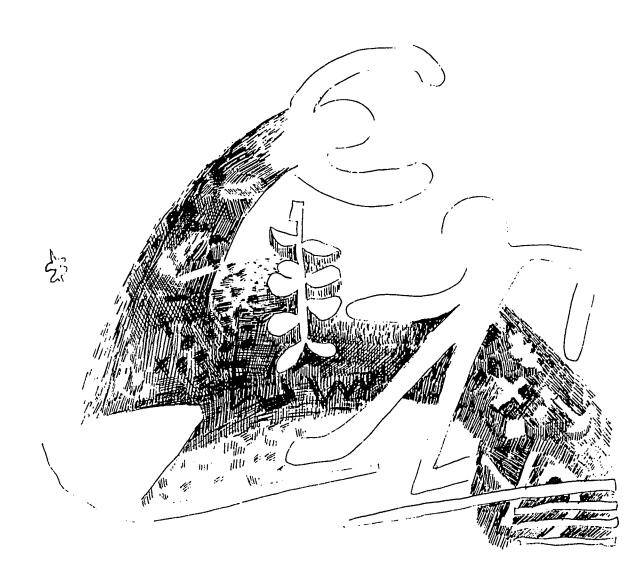
Concepts:

- A. Imagery can depict an important local political or social issue.
- B. Imagery can depict important aspects of the student's own life.













Facilities, Equipment and Materials

An ideal facility for Art 10/20/30 instruction would provide the physical resources to accommodate all the goals of the art curriculum. Since this curriculum is not conceived as consisting of laboratory/studio activities exclusively, other requirements arise. The character of the activities envisioned in this guide necessitate an art room that affords safe and adequate studio facilities, ample display space, areas for viewing and discussing art works in large and small groups, and library research areas.

An ideal facility for Art 11/21/31 instruction would also provide the physical resources to accommodate all the goals of the art curriculum. Since this curriculum emphasizes the use of textual and visual resources, it is essential that the facility affords space for appropriate viewing of audio-visual presentations, ample display space, large and small group discussion areas, research areas, and storage space for student texts and materials. However, studio activities are also envisaged within this curriculum. safe and adequate work space, and to appropriate materials are regarded as necessary to effective instruction for Art 11/21/31. Teachers and administrators should contact the regional consultants in Fine Arts. Education, for specific recommendations on facilities for art instruction.

Rooms and Spaces

- 1. Area
- work space should be planned to accommodate a maximum of thirty students. Overcrowding interferes with both the safety of the program and effective teaching of the art curriculum. Storage space, in addition to workspace, should be determined on a per-student basis.

- Location on ground floor with access to deliveries.
 - northern exposure is desirable, and room should be isolated from regular classrooms (work noise is often a; factor).
 - direct access to outdoors is desirable.
- 3. Floors
- washable surface.
- 4. Doors
- should have double doors to facilitate movement of equipment; also two exits.
- 5. Lighting
- should have some windows and fluorescent full spectrum lighting. Blackout facilities are essential for viewing slides, films, and video.
- 6. Ventilation windows that open; a fume exhaust hood (see Hazardous Art Materials and Occupational Safety, p. 94).

 (See also Kilns and Photographic Darkrooms p. 95).
- 7. Electrical wiring should be 110 and 220 with several electrical outlets on different circuits.
- 8. Electronic all appropriate jacks and outlets for electronic media (T.V., video, telephone, intercom, computer and laser disc player).
- 9. Teaching and research space library space with work table, gallery/display areas, effective andio-visual viewing space, area for large and small group presentations.

cont....

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Rooms and Spaces (cont...)

- 10. Teacher's office space for preparation and student-teacher conferences, with windows to the art classroom and telephone.
- 11. Storage spaces a lockable walk-in supply room
 with adjustable or modular
 storage units; also storage
 shelves and cupboards beneath
 counters in classroom. All
 storage spaces should be lockable
 in view of community use of workrooms. Adequate storage space
 should also be provided for
 reference materials, works of
 art, models, slides, and
 reproductions.

Display Space and Furniture

Display areas should accommodate both two and three-dimensional works of various sizes.

- 1. Tackboard should be in all available space.
- Display shelves adjustable shelves mounted on brackets.
- 3. Dropped ceiling hangers for hanging 3-D works.
- 4. Outside the art room display areas (tackboards, locking cabinets) should be located in other parts of the school, especially in hallways and common areas.

Classroom Equipment and Furniture

Sufficient equipment should be provided to allow for independent work on large and small scale projects in a variety of media. It is felt that the following are basic furnishings for a high school art room:

- Sinks two peninsulas or island units with clay traps.
- 2. White board minimum 1200mm x 1200mm.
- Bookshelves open shelves for reference books and textbooks.
- 4. Counter and cupboard storage sufficient space for art paper, drawing boards and supplies, projects in progress, audio-visual materials, models, art works and reproductions.
- 5. Steel cabinets for storing hazardous materials.
- 6. Teacher's desk and a demonstration table.
- 7. Filing cabinet.
- 8. Art tables individual student tables with tilted tops or large work tables; with chairs or adjustable stools. Table top easels for use on large work tables.
- 9. Easels 15 large easels for painting and presentations.
- 10. Large paper cutter.



cont'd....

Classroom Equipment and Furniture (cont...)

- 11. Tool cabinet with hand tools.
- 12. Large wall screen.
- Slide projector/laserdisc player/T.V. monitor/ computer.
- 14. Ceramic kiln with automatic shut-off; kiln furniture. Kiln closet with exhaust system is recommended.
- 15. Garbage cans metal for waste, plastic (with lids) for storage.
- 16. Clean-up equipment broom, mop and pail, sponges, scrub brushes, dustpan.
- 17. Drying rack metal.
- 18. First aid kit/eye wash station.
- 19. Paper towel dispensers.
- 20. Workbench with vise.
- 21. Fire extinguisher/fire blanket.

Further information:

Information on art room planning can be obtained from Planning Facilities for Art Instruction, National Art Education Association, 1916 Association Drive, Reston, Virginia, U.S.A. 22091.

See also <u>Visual Arts</u> and <u>Crafts Facility Planning</u> Alberta Culture, Visual Arts, 3rd Floor, Beaver House, 10158 - 103rd Street, Edmonton, Alberta T5J 0X6.

Art Materials and Tools

Ceramics

Clay - prepared Plastic bags Canvas or cotton Small plastic squeeze duck for tables bottles Modelling tools -Plastic pails with manufactured, found lids for glaze objects storage Glazes Kiln furniture Oxides. Rolling pin Kiln wash Sieve Pyrometric cones Heat resistant gloves Sponges Wire clay cutters Bamboo brushes Dipping tongs

Collage

Heavy backing sheets - cardboard, wood White glue
Polymer medium (PVA)
Paste powder
Liquid starch
Found materials (see below)

Display

Cardboard display panels
Pushpins/straight pins
Matte board or heavy tag
Clear acetate sheets (to cover hall displays)
Gummed labels
Tapes - transparent, masking, water

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cont....



Art Materials and Tools (cont...)

Drawing

Drawing boards Charcoal sticks Conte sticks Pencils - hard and soft Pencil crayons India ink, colored inks Straight pens Felt tip pens - fine and thick Wax cravons Collection of found objects Ouills or reeds

Oil and chalk pastels Magnifying glasses Newsprint Kraft paper Parchment Manilla paper Transparent paper Drawing paper Colored papers Fingerpaint paper (for

felt tip pens)

Drawing erasers

Plastic funnel

Fibres

Cotton (100% - bleached or unbleached) Burlap Sewing needles and pins Weaving needles or bodkins Thread Yarns, carded wool Fabric dyes and fixatives Batik wax Cotton string Fabric shears Embroidery hoops or wooden frames

Simple frame looms Large plastic bottles Large plastic bails Measuring spoons and cups Rubber gloves Prishes, wax # licators/tjantings El- ric fry pans Sewing machine

Found Materials

Newspapers Magazines Paper bags, milk cartons Cardboard boxes, tubes Wood scraps, masonite Large and small jars

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Fabric scraps Yarn scraps, string, rope and cord Toothbrushes Old Kitchen Utensils, spools

Found Materials

Household artifacts Styrofoam scraps Plastic bags, bottles, pails Roll ends from newspaper Rags Aluminum plates, foil plates Eqq cartons Bones

Clothing - custumes Foam rubber scraps Acoustic tile scraps Stones Shells Seed pods Dried flowers Driftwood Bark Gourds

Painting

Brushes - small round - medium round - large flat - bamboo - medium flat - assorted wide Mixing trays, palettes Paint - tempera (block/ powder/liquid) - acrylic - watercolor

- oil Primer Sponges

Glass/plastic containers

Easels

Paper - manilla

- cover
- kraft
- watercolor
- Mayfair

Painting boards (for stretching watercolor paper) Painting surfaces

- canvas, and wood for stretchers
- masonite
- found objects



ceit'd....

Art Materials and Tools (cont...)

General

Papers - Newsprint Manilla Cartridge

Cartridge Finger paint Construction

Cover paper Tissue Kraft Butcher roll Crepe Cardboard

Manilla tag
Mayfair

Scissors

Straight pins
Thumbtacks

Staples
Nails
String
Glue - white

T-square

Taste

Cellophane tape Masking tape Glue sticks Hammer

Wire cutters
Screwdriver
Handsaw
Pliers
Rulers

Exacto knives
Utility knife

Geometry instruments

Sponges Hand cleaner Soap

Paper towels
Detergent
Stain remover
Powdered cleanser

Photography

Inexpensive cameras

Film

Photographic processing chemicals, equipment (note

hazards)
Photo paper

(See Kilns and Photographic Darkrooms, p. 95).

Printmaking

Linoleum

Soft wood blocks Carving tools Whetstone

Printing inks (water-based) Silkscreen fabric, frames Solvents (note hazards)

Inking boards Brayers Squeegees

Drying racks or lines

Roller press (positive feed)

Sculpture and Construction

Plaster of Paris Ceramics materials

Wire

Sandpaper Wallpaper paste

Newspapers

Modelling clay

Straws

Sticks, toothpicks Adhesives, tapes, glue

Found materials

Soldering and welding Tools and materials

(note hazards)

Plastic pails C-Clamps

Files

Chisels, gauges
Mallets, hammers

Sponges

Modelling tools (manu-

factured and found)
Cardboard boxes,
sheets, tubes

String

Knives, utility knives



Art Displays, Art Shows and Art Contests

The opportunity to display art products to class-mates, the school, and the community is an important aspect of students' experiences in an art program. Art displays and shows underscore the importance of art-making as visual communication, and allow other members of the school and community to see the results of art room activities. Art contests are contrary to the philosophy and goals of Alberta Education curricula. Displays, shows and contests are different in purpose and can be considered as follows:

- Art Displays

Displays of students' art works within the art room and school are important for meeting the goals and objectives of this program. Within the art room, they facilitate the learning of descriptive, analytical and evaluative skills: by displaying and discussing their works in large or small groups, the students develop knowledge composition and techniques, learn art vocabulary, and learn to identify and describe both problems and successes in their own work and that of others. Art displayed in other parts of the school gives students of the art program a sense that their own art works have value and significance to the school as a whole, and enhances the role of the art program in enriching the general school environment.

It is important, therefore, that the work of each student is displayed as frequently as possible, and that displays are changed on a regular basis to allow all students to have an opportunity to show their work. Reproductions of well-known art works that contain concepts, subjects or

techniques similar to those employed in the students' works could be included in displays. Students should have an opportunity to plan and to mount displays, and written explanations should be included when appropriate.

Within the art room, displays offer an opportunity to formalize sessions in Drawings, Compositions and Encounters where visual, analytical and critical skills are to be developed.

A. Shows

Art shows are the appropriate forum for the displa; of student works in more formal circum-Art shows are mounted for special purposes or to accompany special events in the school or community such as concerts, festivals or athletics. They take on some of the characteristics of the equivalent museum or gallery shows, with special displays, catalogues of artists and works, and labels. Collective shows among several schools or a whole school district are a possibility. The essential element of art shows as well as displays is open participation. Although art shows may have criteria of theme, medium, or available space, there is no judgement of students' individual expressive or technical abilities, and a few selected students are not singled out for recognition over and above their classmates.

cont....



ART DISPLAYS, ART SHOWS AND ART CONTESTS (cont...)

As Contests

Competitions are sometimes organized conjunction with special school events. Although art contests are often devised by people with intentions of fostering creative activity, they cannot always be justified in educational settings. They may present standards external to school programs and single out a few students for recognition. The policy statements of the Canadian Society for Education Through Art, paraphrased here, explain the reasons why art educators are united in their attitude toward the negative effects of art competitions students.

- Of the students selected to enter competitions, few are rewarded.
- In competitions, judges not conversant with young people's artistic development and expression may base decisions on adult standards.
- Competitions tend to undermine co-operation and may thereby defeat the purpose of any worthy cause.
- Many students' expectations and sense of worthiness are undermined when a very few are singled out for recognition.

Instead, the C.S.E.A. advocates holding exhibitions or displays that promote the objectives of the total curriculum and allow all students to participate.

- Competitions for Commissions

Occasionally, highly motivated and involved high school art students are offered opportunities to plan works of art for clients outside of the art For example, students might be classroom. approached to plan a mural for the school, design a poster for a community group, or make a sculpture or painting for a teacher in the school. This form of transaction is common in the professional art world. If students wish to participate in this kind of competition, teachers have responsibility to discuss the possible disappointments, the requirements of professionalism, and the standards of presentation that the student will encounter. This kind of experience can be valuable for a student contemplating a career in visual art.

- Portfolio Submissions for Post Secondary Education

Art 30 students who have a desire to continue post-secondary education in the art field may be expected to develop a portfolio for submission to the selected college or university. This situation does not contravene the previous statements regarding elementary and secondary art education practice. Students preparing portfolios can be encouraged to develop a range of quality art works best displaying their capabilities and interests. These students should also be alerted by their teachers to the possible request by the institution that the student fulfill some specific set of visual exercises.

cont'd....

Students interested in a career in art can expect to have their works reviewed or judged throughout their life. Submissions to galleries or shows, competitions for public commissions applications for scholarships or grants are a few of the situations that they will encounter.





Careers in Art

The focus of the secondary art program is to develop the competency and interest of students in the expressive and reflective aspects of the visual arts through experiences in a sequential program. Students who have successfully completed this program can be expected to possess visual skills useful to comprehending and articulating visual images. Most students who undertake the program will be likely to continue to enjoy and, through their critical abilities, comprehend the visual arts of their own and others' societies.

As well, some students are likely to consider further post-secondary training and study in the visual arts. The best-known career in art is that of the professional artist, however, this is only one of the many possible art-related careers. In order to consolidate learning experiences and activities into a direction or goal for the future, students may wish to learn about the varieties of careers available. Teachers can assist students, many of whom may possess distinctly different art abilities or interests, to become familiar with possible educational routes available to their chosen careers.

Some of the many careers which utilize art skills and training are:

Antique Restorer Art Publisher Architect Art Salesman Animator Art Teacher Artist's Agent Art Therapist Art Consultant Cabinetmaker Art Editor Calligrapher Caricaturist Art Designer Art Director Ceramicist

Choreographer Cinematographer Combat Artist Commercial Photographer Color Consultant Costume Designer Crafts Counselor Curator Design Consultant Design Engineer Designer in Glass Display Artist Dressmaker Draftsman Exhibition Designer Fabric Designer Fashion Designer Fashion Photographer Field Exhibition Artist Film Editor Filmmaker Foundry Artist Functional Designer Furniture Designer Gallery Director Gallery Educator Graphic Designer Greeting Card Designer Hair Stylist Illustrator Industrial Designer Industrial Photographer Interior Designer Jeweler Jewelery Designer Landscape Artist

Layout Artist Leather Craftsman Letterer Lighting Consultant Lithographer Make-up Artist Marine Illustrator Market Illustrator Medical Illustrator Metal Worker Model Maker Mock-up Worker Model Maker Mock-up Artist Muralist Museum Educator Package Designer Painter Paste-up Artist Photographer Photography Editor Photo Retoucher Political Cartoonist Printmaker Printer Publicity Director Upholsterer Researcher Restorer Science Designer Scientific Photography Sculptor Serigrapher Set Designer Sign Painter Special Effects Designer

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ERIC Full Text Provided by ERIC

Stained Glass Designer

Stylist

T.V. Animator

T.V. Background Artist

Teaching Aids Artist

T.V. Director

Technical Illustrator

Visual Aids Artist

Textbook Illustrator

Weaver

Textile Designer

Window Decorator

Tool Designer

Woodcarver

In Alberta, the main schools that provide extended education in art after secondary school are: The Alberta College of Art, Calgary; The University of Alberta, Edmonton; The University of Calgary; The University of Lethbridge, and The Banff Centre School of Fine Arts. Community colleges and technological institutes have programs leading to qualification in arts related careers.

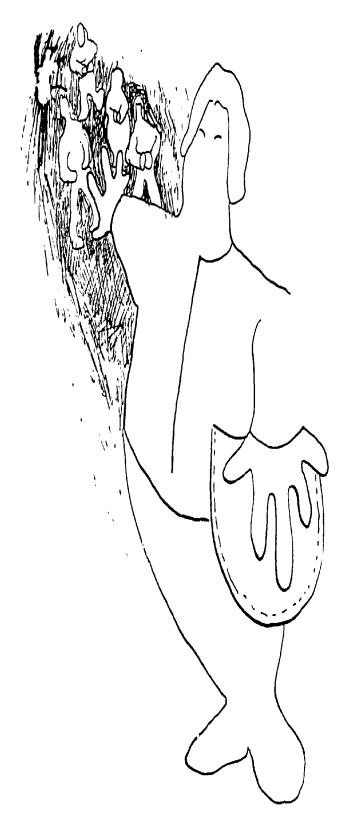
Several resources are available to provide further information about the variety of arts related occupations.

1. Career Education and the Art Teaching Profession (Monograph No. 1), Career Education in the Visual Arts: Representative Programs and Practices (Monograph No. 2) and Careers in the Visual Arts: Options, Training and Employment (Monograph No.3) - 1980.

Available from National Art Education Association 1916 Association Drive Reston, Virginia, U.S.A. 22091

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2. Brommer G. and J. Gatto. Careers in Art: An Illustrated Guide. Worcester, Mass.: Davis Publications, 1984. Distributed in Canada by Fitzhenry and Whiteside.





Glossary

The terms in this glossary are defined according to the purposes of this curriculum guide.

Abstraction, Abstract - terms given to forms created by the artist but usually derived from objects observed or experienced. Usually involves simplification or rearrangement, often to the point where the forms seem to have little relationship to things in the natural environment.

(See Non-Objective)

Additive - a sculptural term meaning built-up, assembled or attached.

Aesthetic - an appreciation of the beautiful; or, arrangements of the parts of an art work that cause an aesthetic or pleasurable response; the science of sensuous knowledge; theories about the beautiful in the arts.

Alteration - distortion, exaggeration or rearrangement of the parts of a realistic image to create a new form.

Analogous Colors - closely related colors; those that are adjacent to each other on the color wheel (e.g., yellow-orange).

Analytical Drawing - making careful observations of the subject while it is being drawn; thorough attention to particular characteristics of the subject matter. Analytical Skills - skills that enable students to compare and contrast ideas about art and component parts of art works; skills that enable students to apply concepts they know to problems presented in art activities to arrive at successful solutions and conclusions.

Arch - a structural component of a building that permits the spanning of a greater space between supporting members of the building than could a lintel (see post-lintel).

Armature - a support, usually wire, upon which a sculpture is constructed.

Art Criticism - the practice of forming interpretations and making critical judgements about art.

Artifact - an object made by human effort, usually having some aesthetic properties.

Assemblage - an art technique that utilizes found materials in a combination of collage, painting and sculpture.

Atmospheric Perspective (aerial perspective) - the illusion of deep space produced in 2D works by lightening values, softening contours, reducing value contrasts and neutralizing colors in objects as they recede.

cont....

- Automatic Drawing spontaneous, expressive drawing that is intended to record impulses and impressions rather than details (see Gesture drawing).
- having, or relating to an axis. Axial In design, a form that is bisected by a straight line.
- Barrel Vault an arched roof fashioned of stone, brick or concrete that is an extension of the round arch.
- Bas Relief low relief sculpture where figures are shallowly carved.
- in design, a form that is separated into Bimodal two distinct, but balanced portions.
- Biomorphic forms whose contours are similar to animal or plant configurations, rather than to mechanical or geometric shapes.
- any controlled, flowing, Calligraphic Line continuous use of line in painting, drawing and sculpture; the character and quality of an artist's linear work.
- Cantilever in architecture, a lintel extending beyond its supports.
- Chiaroscuro the use of value contrasts to demonstrate the effect of "light/dark", or light and shadow.

- Closed Forms forms that appear massive, lacking any significant extension or intrusion of negative space.
- Cognition action or faculty of knowing, perceiving, or conceiving.
- an art form in which the artist creates Collage the image, or a portion of it, by adhering real materials that possess actual textures to the picture plane surface.
- Color Scheme an orderly selection and arrangement of colors whose relationships affect the character of the art product.
- Color Wheel a circular system devised to show the continuous relationships of the primary, secondary and tertiary colors of the *pectrum.
- Competency a sufficiency of ability to perform a task, technique, or use a skill in order to express some artistic idea.
- Complementary Colors two colors that are directly opposite each other on the color wheel. A primary color is complementary to a secondary color that is a mixture of the two remaining primaries (e.g., red is complementary to green, which is a mixture of yellow and blue).

cont....

Components - the elements of a work of art that comprise a composition.

Composition - the act of organizing all of the
elements of a work of art into a harmoniously unified whole. Each element used
may have particular characteristics that
create interest, but must function in
such a way that the whole composition is
more important than its parts.

Concentration - the clustering or unequal distribution of some elements of a composition within the picture plane.

Concept - a comprehensive idea or generalization that brings diverse elements into some basic relationship.

Conservation - the scientific practice of preserving artifacts in a condition that as closely as possible equals their original state.

Construction - the process of making a sculpture by assembling and joining a wide variety of materials, such as wood, cardboard, plastic, paper and metal.

Continuous Line - slow, analytical drawing that

describes the contours and surfaces of an
object with a single continuous motion of
the drawing instrument (see Contour).

Contour - Contour drawing describes the edges and surfaces of an object in relation to its occupied space (see Continuous Line).

Contrast - emphasize differences or opposition of elements in a work of art.

Critaria - standard by which something (e.g., learning, work of art) is judged.

Critic - someone who interprets and evaluates works of art. Critical skills include abilities to describe the content, meanings, and purposes of art works, and to judge their effectiveness in conveying meaning.

Cross-Hatching - a method of drawing using many overlapping sets of parallel lines to create value differences.

Culture - the values and the relationships between values that inform a society, motivate its behavior, cause it to be functional to the general satisfaction of its members and give the society a distinctive quality and character.

Cursive Line - a drawing technique having a quality similar to that of handwriting.

Curvilinear - stressing the use of curved lines as opposed to <u>rectilinear</u>, which stresses straight lines.

Decorative - the quality that emphasizes the twodimensional nature of any of the visual elements. Decoration enriches a surface without denying the essential flatness of its nature.

cont....

Deliberate (media) - media which require a series of actions in order to execute a visual idea (e.g., silkscreen printing).

Delineation - an idea shown by drawing, describing, or portraying in some way; in problem delineation, a process of refining the idea to be expressed.

Design - the planned organization of a composition.

Diorama - a three-dimensional scene within a confined area.

Distortion - a change made by an artist in the size, position or general character of forms based on visual perception, when those forms are organized into a pictorial image.

Dominance - the principle of visual organization that suggests that certain elements should assume more importance than the others in the same compositions.

Dominance contributes to unity because one feature is emphasized and other elements are subordinate to it. (See Emphasis)

Element of Design - the basic visual signs as they are combined into companies used by the artist to express sentive ideas. The basic elements are line, shape, value, texture, space and color.

Emphasis - a sciple of design that establishes implace, attention or significance; a lionship between dominant and subscinate elements in composition (see tance).

Environmental Design - the planned organization of human environmental spaces; it involves any of: architecture, landscape design, interior design, urban planning, ergonomics, industrial design of fixtures for human spaces.

Ergonomics - the scientific study of the relationship between human beings and their working environment with a view to increasing efficiency.

Exaggeration $\cdot \cdot$ extreme emphasis, and/or distortion in composition.

Expression - the special characteristics of form that mark the work of an artist or group of artists. Expressive content is the meaning and significance of art produced by the fusion of form and subject.

Strongly emotional or intellectual content in works is called expression.

Figure-Ground - a phrase referring to a spatial relationship between forms and the backgrounds against which they have been placed (see Positive Negative Space).

cont...

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ERIC.

Focal Point - the centre of interest or attention in a work of art.

Foreground - in 2D works, the space depicted as nearest to the viewer.

Foreshortening - the apparent visual compression or distortion of forms in a composition to indicate depth in space.

Form - a shape or mass; also the total configuration of the shapes, structures, and expressiveness that comprise a work of art.

Formal - an orderly critical system of acquiring information about an art work; works of art based on the principles of art.

Formal Balance - an orderly organization of components in composition that usually incorporal axial symmetry of forms.

(Symmetrical)

Fresco - a process of painting on plaster, either dry or wet, where pigments are mixed with water and then chemically bonded to the plaster; the process was perfected during the Italian Renaissance.

Frottage - an image created by rubbing a soft drawing instrument on the surface of paper which covers a textured surface.

Genre - subject matter that concerns everyday life, domestic scenes, sentimental family relationships, etc.

Geometric Shapes - shapes created by the exact mathematical laws of geometry.

Gesture - action drawing created rapidly and sketchily, capturing the movement or position of a given subject.

Golden Section - (golden mean) refers to proportion in painting, sculpture, and architecture, based on Euclidean theory; the ratio between two unequal parts of a whole when the proportion of the smaller to the larger is equal to the porportion of the larger to the whole.

Graphic Design - a term usually used to describe typographic design, advertising design and the technology of printing.

Grid System - a system of parallel, evenly spaced horizontal and vertical lines to create a graph on an image. The visual information within each block of the graph can then be transferred to a graph of different dimensions to enlarge, reduce or distort the image

Ground - the surface on which an art work is made.

cont....

- the unity of all the visual elements of a Harmony composition, achieved by repetition of the same or similar elements.

- a method of drawing using close groupings Hatching of short parallel lines.

Horizontal Line - the line that suggests the boundary between earth and sky in a 2D work empl ing linear perspective. It is often plied rather than deliberately drawn.

Icon (iconography) - an artifact that represents an idea or story of some meaning or value to a group of people

Idealism - a creative viewpoint that emphasizes the mental image or idea by aspiring to a representation of perfection rather than to a representation of actual observed detail.

Illumination (manuscripts) - the art of decorating and elaborating manuscripts from Egyptian times through to the 15th century; (landscape) - a sense of a light source.

Illustration - an art practice that stresses anecdotes or story situations; the content is usually readily recognized and narrative (describes events).

- a mentally envisioned thing or plan given Image concrete appearance through use of an art radium; also, the general appearance of a .ork.

- a particularly thick or heavy application Impasto of paint.

Informal Balance - an equal distribution of emphasis, or unity, of the various visual elements in a composition without the use of symmetry (see Formal Balance). (Asymmetrical)

- a printing process where the printing ink Intaglio is forced down into the printing surface.

Intensity - the saturation or strength of a color determined by the quality of light reflected from it (the brightness or dullness of a color).

Juxtaposition - the state developed between objects in close spatial relationship.

Kinetic - any work of art that contains moving parts.

Layouts - rough plans for a work of art.

- a record of a point moving through space Line (may be actual or implied); the path made by a tool or instrument as it is drawn across a surface.

cont....



Linear Perspective - using lines to create the illusion of a three-dimensional space on a two-dimensional surface.

- in architecture, a crosspiece supported Lintel by pillars or walls.

Lithography - the process of printing from a smooth limestone or metal plate on which the image to be printed is ink-receptive and the blank area ink-repellant.

- a small scale plan of a sculpture. Maquette

- the physical bulk of a solid body of Mass material; the appearance of weight or volume of matter in space.

Matte - a smooth but not shiny surface.

Medium, Media - the materials and tools used by the artist to create the visual elements perceived by the viewer of the work of art. Mixed media: art work that uses a combination of media.

Metamorphosis - a series of drawings that describes and records the real or imagined changes in objects over time.

Mobile - a balanced construction with moving parts, suspended from above, and moving freely in the air currents.

Modelling - a sculptural term meaning to shape a pliable material.

Modular Units - basic units of measure taken as a principle for determining the major divisions and proportions of an object, building, figure or site.

Monochrome - a single color or the value variations of a single hue.

Monoprint - the technique whereby it is possible to make only one print by transferring an image from an inked surface to a blank one.

- a composition produced by overlapping, Montage joining and pasting pictures or portions of pictures onto a flat surface.

booM - a feeling or sense conveyed by an art work as a result of the handling of the elements of the work.

- a visual element or combination of Motif elements that is repeated citen enough in a composition to make it the dominant feature of the artist's expression.

- direction and degree of energy implied by Movement art elements in specific pictorial situations; amounts of visual thrust produced by such matters as dimension, placement, and accent.

cont....

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(cont...)

- a wall painting.

Space - the unoccupied or empty space left after the positive shapes have been placed by the artist.

ctive - an approach to art in which the visual signs are entirely based on imaginative or technical derivations and not from anything ever seen by the artist. The shapes, their organization, and their treatment by the artist are entirely personalized and consequently not associated by the observer with any previously experienced natural form.

- any form or description of a drawn mark used in making an image.
- upright, four-sided pillar commonly covered with hieroglyphic writing recording events.
- art works where surface qualities of subject matter are rendered exactly, without personal interpretation by an artis:
- Color the naturalistic color of an object as seen by the eye (green grass, blue sky, etc.).
 - quality of darkness; not reflecting or transmitting light.

Oren Form - a quality of three-dimensional complexity involving considerable extension into space, producing a feeling of openness.

Optical, Optical Perception - a way of seeing in which the mind functions to provide the physical sensation of recognition of form, as opposed to conceptual perception, or the artist's imaginative and interpretive vision.

Organic - pertaining to nature, natural objects, or living things. Organic forms are often irregular and contrasted with geometric or man-made forms.

Orthographic Technique or Projection - a graph.

equivalent to seeing all an object's sides
as if from a frontal view; no frection
for diminishing through distaints given;
each side is rendered as if the head on,
and presented on the page so as to give
multiple views of the object.

Palette - a board or other device woon which colors are mixed; the group of colors used by an artist in a given composition.

Partial Delineation - a drawn image that is implied by incomplete or non-joining lines or notations.

Pattern - the repetition of elements or the combinations of elements in a regular, systematic organization.

cont....

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Perception - the act of taking notice; recognition of an object, quality or idea through the use of the physical senses and/or mental faculties.

Perspective - a mechanical system of creating the illusion of a three-dimensional space on a two-dimensional surface.

Picture Plane - the actual flat surface on which the artist creates a pictorial image.

Pigment - a color substance, usually powdered,
which becomes paint or ink when mixed
with a liquid in which it is partially
soluble.

Pointillism - the technique of applying dots or tiny strokes of color to the surface so that when seen from a distance the colors are perceived as blended.

Positive Space, Positive Shapes - the enclosed areas that represent the initial selection of shapes planned by the artist.

Pottery - an object made of earthenware and hardened by firing.

Primary Colors - the three basic colors of the spectrum that cannot be produced by mixing pigments; red, yellow, and blue.

Print - to transfer an image from one surface to another.

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Proportion - the comparison of elements of a composition to one another in terms of their properties of size, quantity and degree of emphasis.

Proximity - the relative distance or closeness of elements of a composition to one another.

Radial Balance - two or more identical forces distributed around a centre point to create a repetitive equilibrium or balance.

Realism - forms of expression that retain the basic impression of visual reality.

Relief Sculpture - partial projection from the main mass (see Bas-relief).

Repetition - the repeated use of the same visual element a number of times in a composition.

Representation - a manner of expression in which the subject matter is presented so that visual forms are related to actual forms experienced by the viewer.

Restoration - the science of repairing works of art so that they recover, as much as possible, the qualities they possessed when they were first made.

Rhythm - repeated elements of design in a composition that create harmonious movement.

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cont....

ERIC

Rubbings - images produced by rubbing a soft drawing instrument over paper placed against a textured surface (see Frottage).

Scale - relative or proportional size.

Sculpture, Sculpting - the art of shaping threedimensional forms.

Secondary Colors - colors created by the equal combination of two primary colors: orange, green and purple.

Serigraphy - printmaking using the silk screen process.

Shade - an area that is differentiated from the space around it because of a defined boundary or a difference in value, color, or texture.

Skeletal - the quality of an object that contains a rigid inner support which determines the outward form of the object.

Space - an extent, measurable or infinite, that can be understood as an area or distance; an empty volume to be occupied by a form, to be used positively or negatively in relation to that form.

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Spatial Depth - space possessing thickness as well as length and breadth; a pictorial illusion that suggests recession of forms into space.

Spinal - in design, forms that are connected along a common, central line or axis.

Spontaneous (media) - media that can be used quickly or in a loose manner to show some visual idea (e.g., graphite, watercolor).

Stencil - a thin sheet of paper, metal or plastic film cut to leave openings through which color can be transferred to a surface beneath (positive or negative spaces).

Still-Life - an arrangement of inanimate objects such as fruit, flowers, or pottery used as the subject of a work of art.

Stippling - a technique whereby the working surface is covered with a pattern of dots, which may be abstract or may establish depth, value, or form.

Structure - a building or constructed architectural unit; the compositional relationships in an art work.

Stupas - a hemispherical or cylindrical mound or tower, artificially constructed of earth, brick or stone; often a memoral.

cont....



Style - a specific character, form, or trend noticeable in art movements, periods of history, or an individual's expressive use of a medium.

1

Subjective (response) - an approach to creating art
that emphasizes personal interpretation
and where natural forms may be altered or
exaggerated in order to express the
artists' point of view.

Subjective Colors - colors chosen by the artist without regard to the natural appearance of the object being portrayed; these colors represent the artist's expression.

Subtractive Sculpture - a sculptural technique meaning carving, cutting or removing portions of the sculptural material.

Surrealism - an artistic style that emphasizes fantasy, imagination and subconscious experience.

Symbol - a form, image, sign or subject standing for something else; often a visible suggestion of something invisible.

Symbolism - some thing or series of things (e.g, sign, form, color, allegorical reference, metaphor) that artists select to represent some secondary quality, idea, thing or occurence; a representation of meaning more profound than that initially observable.

Symmetry - a form of balance made by the repetition of exactly similar parts facing each other or a center.

Synectics - a creative problem-finding and problemsolving method that induces the
participant to consider "the familiar
in a strange way" and "the strange in a
familiar way"; the joining of two or more
ideas.

Tableaux - a scene of people interacting in some way that has been chosen by the artist for its visual impact or emotional meaning, e.g., a moment in a play, ceremony or sports event.

Tactile - a quality that refers to the sense of touch.

Technique - the manner and skill with which artists employ their tools and materials to achieve a predetermined expressive effect.

Technology - any practical art utilizing scientific knowledge; a systematic treatment of some situation.

Tempera - a painting technique using pigment mixed with a binder such as egg yolk, glue, starch or casein.

cont....



Template - shaped flat material used as a pattern to reproduce the outline of that shape many times.

Terra Cotta - low fire red clay, generally unglazed.

Tertiary Colors - colors made by combining a primary and a secondary color, e.g., red-orange.

Texture - the actual or implied tactile quality of a surface, e.g., smooth, rough, soft, hard.

Theme - the meaning of a work of art.

Three-Dimensional - having dimensions of length, width and depth.

Tint - the light values of a color made from the color and varying amounts of white.

Tone - the character of color or value of a surface determined by the amount and quality of light reflected from it.

Translucency - some light transmitted resulting in a glowing or illuminated area; diffused rather than specific form is perceived.

Transmutation - a change of something into another form, kind, or substance.

Transparency - transmitting of some light so that form might be perceived through the surface or substance.

Two-Dimensional - having dimensions of length and width.

Unity - the total effect of a composition that results from the combination of all the works components.

Value - the relative degree of lightness or darkness attributed to an area or color by the amount of light reflected from it.

Vanishing Point - imaginary point used in linear perspective as the convergence of all lines that recede into space.

Volume - any three-dimensional quantity that is bounded or enclosed, whether solid or void.

Watercolor - pigments mixed with water-soluble gum and applied to paper.

cont....



Woodcut - print made from a wood block into surface of which an image has been

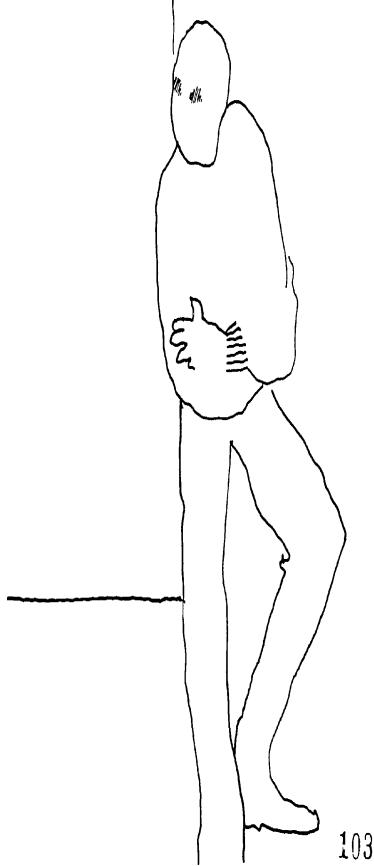
carved.

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Calgary Public School System Curriculum Outline (7-9).





Index to Resources

- A. Materials Cited in "Resources" Sections of Concept Pages.
 - A.1 Print Resources: Prescribed, recommended and cited texts and books.
 - A.2 Visual Resources: Slide form of art works cited.
- B. Additional Print Resources: Names, Addresses, and Materials Description.
- C. Additional Visual Resources: Names, Addresses and Materials Description.
 - C.1 Slide Resources
 - C.2 Art Works and Art Reproductions.
 - C.3 Audio-visual Materials (loan rental, purchase).
- D. Personnel, Centers, Organizations and Institutions: Names, Addresses and Brief Description.



Kesou	rees		
A. Materials Cited in "Resources" Sections of Concept Pages		Collier, G.	Form, Space and Visior. 3rd ed. Toronto: Prentice-Hall, Inc., 1972
	ces: prescribed, recommended ed texts and books.	Copplestone, T.	Art in Society. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1983.
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Arnason, H. H.	History of Modern Art. Englewood Cliffs, N.J.: Prentice-Hall, Inc. New York: Harry N.Abrams, Inc. 1968.	Cultural Heritage Branch	Profiles. Provincial Museum of Alberta, 1984.
Bennett, B. and Hall C.P.	Discovering Canadian Art: Learning the Language. Scarborough, Ontario: Prentice- Hall, Canada, Inc., 1984.	Cunningham, L. and Reich, J.	Culture and Values. Volumes I & II Toronto: Holt, Rinehart and Winston, Inc., 1982.
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Brommer, G. and Horn, G.	Art: Your Visual Environment. Worcester, Mass.: Davis Publications, 1977.	Elsen, A.	Purposes of Art. 4th ed. Toronto: Holt, Rinehart and Winston, Inc., 1981.
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Chapman, L.	Approaches to Art in Education. New York: Harcourt Brace Jovanovich, 1978.	Feldman, E.	The Artist. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1982.

cont....



RESOURCES (cont...)

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Feldman, E.	Varieties of Visual Experiences. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1980.	Kaupelis, R.	Learning to Draw. New York, N.Y.: Watson-Guptill, 1966.
Fleming, W.	Arts and Ideas. 6th ed. Toronto: Holt, Rinehart and Winston, 1980.	Laseau, P.	Graphic Thinking for Architects and Designers. New York: Van Nostrand Reinhold, 1980.
Gardner, H.	Art Through the Ages. 7th ed. Toronto: Harcourt Brace Jovanovich, Inc., 1980.		Note: Teachers should supplement examples in this book with examples of successful female artists and designers.
Gatto, J.	Exploring Visual Design.		
Porter, A., and	Worcester, Mass.: Davis	Life Library of	Light and a Film. Time Life Books,
Selleck, J.	Publications, 1978.	Photography	N.Y.
Hamilton, G.H.	Painting and Sculpture in Europe	MacNair, P.,	The Legacy: Continuing Traditions
	1880 - 1940. New York, N.Y.:	Hoover, A. and	of Canadian Northwest Coat Indian
	Penguin, 1978.	Meary, K.	Art. Victoria, B.C.: Provincial Museum, 1980.
Hanks, K. and	Rapid Viz. Lcs Altos, Calif.:		
Belliston, L.	Wm. Kaufmann, Inc., 1980.	Malins, F.	Understanding Painting - The Elements of Composition. Englewood Cliffs:
Harris, A and Nochlin, L	Women Artists, 1500 - 1950		Prentice-Hall, Inc., 1980.
		McKim, R.	Experiences in Visual Thinking.
Hobbs, J,	Art in Context. 2nd ed.		2nd ed. Monterey, California:
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	, ,	Mendelowitz, D.	Guide to Drawing. New York:
Janson, H.W.	A Basic History of Art. 2nd ed.	,	Holt, Rinehart and Winston, 1976.
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Peterson, A.	Art Basics + Toronto: Gilbert Associates, 1978.
	Women Artists: Recognition and Reappraisal from the Early Middle Ages to the 20th Century. New York: Harper & Row, 1976.
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Riddell, B.	Art in the Making. Milton, Queensland, Australia: The Jacaranda Press, 1982.
Robinson, D.	Reflections. Toronto: Holt, Rinehart and Winston, 1978.

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Klante, D. (out of print) New York: Reinhold

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Slatkin, W. Women Artists in History. Englewood Cliffs, N.J.: Prentice-Hall, 1985.

Tritten, G. Teaching Color and Form in Secondary

School Art. New York: Van Nostrand
Reinhold, 1971.

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Toronto: Van Nostrand Reinhold,
1972.

cont....

A.2 Visual resources: slide form of art works cited.

Packets A, SEVEN, EIGHT, and NINE are listed.

The slide packets are available from the:

Alberta School Book Branch, 10410 - 121 Street,

Edmonton, Alberta T5N 1L2 (Tel. No. 427-2767).

The availability of sufficient and appropriate visual images has been a concern to all art teachers. At present, a laserdisc collection of images is being developed by the Department of Education. This collection will make available an extensive body of images in a permanent record-like format that will be accompanied by a The images are being computerized catalogue. selected from slide collections of art works of all periods throughout time and across cultures. When the development and production of the discs is complete, school boards will be notified. Information about the laserdisc visual encyclopedia and the equipment necessary to play the disc can be obtained by contacting:

M. Lyseng
Learning Resources Officer
West Tower, Devonian Building
11160 - Jasper Avenue
Edmonton, Alberta
T5K OL2

OR

Rod McConnell
Media and Technology Branch
East Tower, Devonian Building
11160 - Jasper Avenue
Edmonton, Alberta
T5K 0L2

An interim visual collection of slides has been developed for use with the junior high art curriculum. Teachers of the senior high programs may find the packets useful as well. Lists of slides for Art 10-20-30 and 21-31 follow the junior high packet lists. However, analysis of the ratio of concepts exemplified by each slide is not available for senior high programs. This collection of slides is subdivided into four packets. In order that teachers can best select the packet, or combination of packets, most useful to their particular program, a description of the slide packet contents follows.

Packet A contains slides that may be used throughout the senior high courses; drawings as well as a variety of two- and three-dimensional works are available.

The remaining three packets (SEVEN, EIGHT and NINE) can be used to demonstrate more specific categories of visual information. Packet SEVEN primarily considers the human figure, packet EIGHT makes available primarily examples of visuals as 'structures', and packet NINE contains equal examples of figural and landscape art Canadian and Albertan artists are works. included in Packet A. The teachers that acquire all four packets are given initial, although by no means definitive, groupings of images with which to teach visual concepts. The senior high packets provide a range of art works from both historical and comtemporary periods.

Information regarding artist, title of work, date and medium can be found in the lists following this introduction.

cont....

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ARTISTS	TITLE	YEAR	Madium/size
Bellows, G.	'Dempsey and Firpo'	1924	Oil
Brancusi, C.	'Mme Pogany'	1912	Bronze / 44 cm
Bush, J.	'Big A'		Acrylic on Canvas
Calder, A.	'Lobster Trap and Fish Tail'	1939	Steel Wire, Aluminium / 2.59 x 2.9m
Cardinal, D.	'Space Science Centre, Edmonton, Alberta'		Architecture
Carr, Emily	'Blunder Harbour'		Oil on Canvas
Cezanne, P.	'Boy with a Red Vest'	1890-95	Oil
Colville, A.	'Family and Rainstorm'		Tempera on Board
da Vinci, L.	'Five Grotesque Heads'	1490	Pen/Ink
Dali, S.	'Persistence of Memory'	1931	Oil / 24 x 33cm
Danby, K.	'Pancho'		Egg Tempera
Degas, E.	'Dancers Practising at the Bar'	C. 1876	30" x 32"
Delacroix, E.	'Tiger Mauling a Wild Horse'	1828	Pencil
Egypt	Old Kingdom 'Khafre-Seated Portrait'	2780-2565 BC	Diorite / 66" high
Fafard, J.	'Calf'		Ceramic Sculpture



ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Gericault, T.	'Two Horses Cavorting'	1818	Pencil
Goya, F.	'Shootings of May 3, 1808'	1814	0il / 8'8" x 11'3"
Graves, M.	'Joyous Young Pine'	1944	Painting
Greek	Hellenistic 'Dying Gaul'	197-241 BC	Marble
Greek	Hellenistic 'Nike of Samothrace'	III/II C. BC	Marble / 2.4m
Harris, L.	'Maligne Lake, Jasper Park'		Oil on Canvas
Hopper, E.	'Night Hawks'	1942	Oil / 33" x 60"
Ingres, J.	'Portrait of M. Guillon-Lethiere'	1815	Drawing
Inuit: Dorset Culture	'Antler Fragment Carved with Human Faces'		Caribou Antler
Jackson, A.Y.	'The Red Maple'		Oil on Canvas
Kane, P.	'Indian Encampment on Lake Huron'		Oil on Canvas
Karvonen, P.	'West of Wye'		Twill Tapestry
Krieghoff, C.	'Habitant Farm'		Oil on Canvas
Leger, F.	'The City'	1919	Oil / 2.31 x 2.95cm
Lindisfarne Gospels	English: VIIC. 'St. Matthew'	VII/C	Manuscript
Marisol, E.	'The Family'	1961	Mixed / 82" x 67"
Masson, A.	'Battle of the Fishes'	1927	Pencil, Oil, Sand / 36 x 73cm





ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Michelangelo	'Pieta'	1498-99	Marble
Miro, J.	'Self-Portrait'	1937-38	Pencil, Crayon, Oil / 1.46 x .97cm
Monet, C.	Center-detail 'Water Lilies'	1920	Oil
Morre, H.	'Tube Shelter Perspective'	1941	Chalk, Watercolor
Morriseau, N.	'Misshipeshu, Water God and Miskinuk, the Turtle'		Oil on Canvas
Nolde, E.	'The Last Supper'	1909	Oil / 34" x 42"
Odjig, D.			
Parthenon	West Frieze 'Two Horsemen at Canter'	447-32 BC	Relief Marble
Picasso, P.	'Head of a Bull'	1943	Assemblage
Pratt, M.	'Cod Filets on Tinfoil'		Oil on Canvas
Rembrandt	'Cottage Among the Trees'	C•1652	Ink Wash
Rodin, A.	'The Thinker'	C. 1876	Bronze / 1.98 x 1.3 x 1.34m
Russell, C. M.	'Medicine Man'		Bronze Sculpture
Seurat, G.	'A Sunday Afternoon at the Grande Jatte'	1885	Oil / 2.06 x 3.05m
Shadbolt, J.	'Prescence After Fire'		Ink and Casein on Paper
Smith, D.	'Hudson River Landscape'	1951	Steel / 1.9m
Stella, F.	'Jasper's Delemma'	1962-63	Alkyd / 6'5" x 12'10"
			<u> </u>

ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Tanguy, Y.	'Furniture of Time'	1939	Oil / 46" x 35"
Toulouse-Lautrec, H.	'Yvette Guilbert'	1893	Pastel
van Gogh, V.	'View of Arles'	1888	Pen
van Gogh, V.	'Night Cafe'	1888	Oil / 29' x 36'
Vermer, J.	'Young Woman with a Water Jug'	C.1665	Oil / 18" x 16"
Watteau, A.	'Head Studies'		
Yates, N.	'Landspace Forty-Four'		Acrylic on Canvas



ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Daumier, H.	'Third Class Carriage'	C•1362	0il / 26" x 36"
Delacroix, E.	'Armored Figure on Horseback'		Drawing
Dubuffet, J.	'Business Prospers'	1961	0il / 65" x 87"
Durer, A.	'Knight on Horseback'		Pen / Ink
Easter Island	'Rapa Nui' Statues	XVII/C	Lava
Egypt	Relief 'Herdsmen and Cattle'	2565-2420 BC	Painted, Relief
Ernst, M.	'Hoade'	1927	Frottage
Lascaux	'Main Chamber - General View'	15,000-9000 BC	Cave Paintings
Marin, J.	'Lower Manhattan'	1920	Watercolor
Matisse, H.	'The Plumed Hat'	1919	Ink
Michelangelo	'Draped Figure'		Drawing
Munch, E.	'The Scream'		Drawing
Nicholson, B.	'Relief'	1939	Relief
Ravenna, S. Vitale	'Emperor Justinian and His Retinue'	547 AD	Mosaic-apse
Rembrandt	'Self-Portrait'	1627	Pen / Wash
Rembrandt	'Self-Portrait'	1633	Chalk



ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Rembrandt	'Self-Portrait'	1657	Pen
Seurat, G.	'The Stone Ergakers'	C. 1881	Conte
van Gogh, V.	'the Zouav∻'	1888	Ink

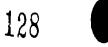




ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Albers, A.	'Wall Hanging'	1948	Tapestry
Chartres	'Interior - Upper Nave from West'	1194-1260	Cathedral
da Vinci	'Proportions of the Human Figure'	C• 1492	Pen
da Vinci	'Study for the Adoration of the Magi'	C•1480	Pen
Gandi, A.	Barcelona 'Casa Milar.Facade'	1905-1907	Architecture
Ghiberti	East Doors 'Gates of Paradise'	1428-1452	Bronze
Giacommetti, A.	'Walking Quickly under the Rain'	1949	Bronze, 32" long
Gottlieb, A.	'Stained Glass Wall'	1954	Stained Glass
Homer, W.	'Life Boat'	C.1881	Drawing
Johns, J.	'Numbers in Color'	1958-59	Oil
Koepping	'Glasses, Flower Shaped'	1895-96	Artifacts
Mexico	'University of Mexico Library-Facade: O'Gorman, Saavedra, Velasco-Architects'	1952-53	Architecture
Moore, H.	'Reclining Figure Paris UNESCO H.Q.'		Sculpture
Mycenean	'Spouted Jar with Octopi'	1200-1125 BC	Artifacts
Nevelson, L.	'Sky Cathedral'	1958	
Nortre Dame, Paris	'South Side'	1163-1250	Cathedral

ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Oldenburg, C.	'Soft Typewriter (Ghost)'	1963	Vinyl, Kapok
Parthenon	'West Facade, North Flank'	448-432 BC	Architecture
Rembrandt	'Christ Carrying the Cross'	1635	Pen / Brush
Riley, B.	'Current'	1964	Synthetic - Resin Paint / 54' x 59"
Soleri, P.	'Arcosanti II, 20th Century		Architectural Plans
Guillard; Lalique; Maison Vevre.	'Three Combs'	c.1900	Artifacts
Tiffany and Co.	'Mantle Set with Egyptian Motifs'	C•1885	Artifacts
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ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Albers, J.	'Homage to the Square "Broad Call"	1967	Painting
Boccioni, V.	'Unique Forms of Continuity in Space'	1913	Bronze / 101cm
Bruegell, ?.	'Return of the Flock'	C.1560	Oil / 1.17 x 1.5m
Cezanne, P.	'Mt. St. Victoire'	1904	Oil
Constable, J.	'Haywain'	1821	Oil / 51" x 74"
Coptic	'Weaving/Textiles II/IIIC - Border Design: Heads, Horses, Birds'	II/III/C	Textile
Corot, J.	'Port of La Rochelle'	1851	0i1 / 20" x 28"
David, J.L.	'Oath of the Horatii'	1784	0il / 14' x 11'
da Vinci	'Mona Lisa'	1503-05	0i1 / 30" x 21"
Duchamp, M.	'Nude Descending Staircase'	1912	0il / 58" x 35"
Gainsborough, T.	'Blue Boy'	1770	Painting
Greek	'Amphora: Big Trainer - Trainer and Runner in Armor'	C.490 BC	Artifact
Llao Dynasty	'Four Seasons: Mural from Ching Ling'	907-1125 AD	Painting
Mantegna, A.	'The Dead Christ'	C.1501	0i1 / 26" x 31"
Michelangelo	'Sistine Chapel - The Flood'	1508-12	Fresco

ARTISTS	TITLE	YEAR	MEDIUM/SIZE
Millet, J.	'The Gleaners'	1857	Oil / 33" x 44"
O'Keefe, G.	Red Hills and Bone:		Oil
Picasso, P.	'Portrait of Ambrose Vollard'	1915	Pencil
Pollock, J.	'Autumn Rhythm'	1950	Oil / 2.67 x 5.26m
Pompeii	'Sacred Lamdscape'	1C BC/1C AD	Wall Painting
Ravenna, S. Vitale	'Vault Decoration - Peacocks, etc.'	52-47 AD	
Renoir, P.A.	'Moulin de a Galette'	1876	Oil / 51" x 68"
Rigaud, H.	'Louis XIV'	1701	0i1 / 9'2" x 6'3"
Turner, J.M.W.	'Snow Storm: Steamboat off a Harbor's Mouth'	1842	Oil / .92 x 1.22m
van Gogh, V.	'Cypresses'	1889	Oil
Warhol, A.	'Gold Marilyn Monroe'	1962	Painting
Wyeth, A.	'Christina's World'	1948	Tempera / 32" x 48"



ART 10 SLIDE LIST

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Artist	Title	Artist	Title
Unknown	- Venus of Willendorf	Claes Oldenberg	- Floor Burger
Salvador Dali	- Persistence of Memory	Morris Louis	- Third Element
Henri Matisse	- Lady in Blue	M. Duchamp	- Mude Descending a Staircase
Pablo Picasso	- Girl With a Mirror	Umberto Boccioni	- Unique Forms of Continuity
Constantin Brancus	i - The Newborn	Alexander Calder	- Black Widow
Joan Miro	- Harlequin's Carnival	Andy Warhol	- Gold Marilyn Monroe
Bernini	- St. Theresa Altar	Roy Lichtenstein	- Modern Painting with Bolt
El Greco	- Resurrection	Fernand Leger	- City, 1919
Henry Moore	- Reclining Figure	Robert Delaunay	- The Tower and the Wheel
Unknown	- Chinese Blue and White Jar	Williem de Kooning	- Figure in a Landscape No. 2
Aubrey Beardsley	- Black Cape	Gentile da Fabriano	- Adoration of the Magi
Toulouse-Lautrec	- Jane Avril 1899	Unknown	- Greek Pottery: Amphora
Lalique	- Jewelry and Mirror	Benozzo Gozzoli	- Medici Chapel Frescoes
Unknown	- Bayeux Tapestry: Detail	Lindisfarne Gospel	- Chi Rho Page
Tiffany	- Vase, 1900	Unknown	- Book of Hours: January
Gustav Klimpt	- Park 1903-10	Unknown	- Book of Hours: October
Georgia O'Keefe	- Black Iris 1926	Paul Klee	- Pastorale
David Smith	- Voltri VI		cont
400			401

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ART 10 SLIDE LIST (cont'd)

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Artist	Title	Artist	Title
Piet Mondrian	- Composition - White, Black and Red	Le Corbusier	- Ronchamp: Ste. Marie Du Haute
20140	- Lounge Chair	Unknown	- Parthenon: West Facade
Aalto	•	Piero della Francesc	a- Flagellation of Christ
Breuer	- Armchair	Giotto	- Ognissanti Madonna
Constable	- Wivenhoe Park, Essex	Fra Filippo Lippi	- Madonna and Child Enthroned
Paul Cezanne	- The Card Players	Vincent van Gogh	- Sunflowers
Rembrandt	- The Night Watch (1642)	Rodin	- The Burghers of Calais
Saarinen	- Armchair	Mari	THE BUTYHOLD OF GUILLED
Bertoia	- Armchair		
Eames	- Armchair		
Mies van der Rohe	- Barcelona Chair		
Delacroix	- Tiger Mauling a Wild Horse		
Matisse	- Plumed Hat (Profile)		
Degas	- Dancer (Pastel)		
Degas	- Figure Study for Ballet Rehearsal		
O'Keefe	- Banana Flower		
Matisse	- The Dance 1909		

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ART 20 SLIDE LIST

Artist	<u>Title</u>	Artist	<u>Title</u>
Leonardo de Vinci	- Caricatures: Two Men (Pen)	de Kooning	- Marilyn Monroe 1954
Degas	- Studies of Dancers (Charcoal)	Frans Hals	- Portrait of an Officer
Toulouse-Lautrec	- The Barmaid (Pastel)	Bronzino	- Portrait of Eleanor of Toledo
Klee	- Family Walk (Pen)	Giotto	- Fresco: Noli Me Tangere
Raphael	- Horseman and Two Soldiers	Brancusi	- Stone Sculpture: The Kiss
Durer	- Feet of Kneeling Apostle	Unknown	- Mosaic: Head of Theodora,
Picasso	- Card Player (Collage)	Malanasan	Ravenna
Max Ernst	- Loplop Introduces (Frottage)	Unknown	- Tapestry: The Apocalypse
Braque	- The Clarinet (Collage)	Rodin	- Bronze: The Mighty Hand
F. Kline	- Painting No. 2, 1954	Louise Nevelson	- Wood: Two Hanging Columns
Salvador Dali	- Crucifixion	Unknown	- Kakiemon Jar: Porcelain
Helen Franken Thale	er - Yellow Clearing	Unknown	- Chinese Bronze Vessel 'Kuei'
	sca- Federigo Da Montefeltro	Unknown	- Ife: Head, Terra Cotta
Hans Holbein	- Portrait of Erasmus	Unknown	- Royal Cups (Gold and Enamel)
		Unknown	- Egypt: Hatshepsut Ptd. Wood
Rubens	- Portrait of Isabella Brandt	Duchamp	- Bicycle Wheel
Manet	- Portrait of Mme. Manet		
Picasso	- Portrait of Gertrude Stein		
Matisse	- Portrait of Madame Marisse		cont
ERIC 137			138

Artist	<u>Title</u>	Artist	Title
Matisse	- Jazz: Swimmer in Aquarium	Durer	- Woodcut: Apocalypse
Rembrandt	- Etching: Hundred Guilder Print	John Marin	- Watercolor: Pine Tree.Maine
Michelangelo	- Creation of Adam	Louise Todd	- Weaving: Yellow Spring
Picasso	- Woman in the Garden	Anonymous	- Album Quilt 1949-50
Degas	- Sculpture: Dancer	Margaret Bourke-Whit Hokusai	e- Photograph: Louiseville Flood - Fuji Above the Lightning
Michelangelo	~ Pieta	HORUSUL	tuji abovo elle prajitaling
Andy Warhol	- Self-Portrait		
Judy Chicago	- Three Studies		
Picasso	- Interior W. Girl Drawing		
Claes Oldenberg	- Monument for Yale: Lipstick		
Salvador Dali	- Persistence of Memory		
Unknown	- Rose Window, Chartres		
Unknown	→ Inca: Weft Pattern Weavi		
Kollwitz	- Death Takes the Children		
Unknown	- Ming Dynasty Vase		
Michelangelo	- David		
			cont

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ART 30 SLIDE LIST

Artist	Title	Artist	<u>Title</u>
van Gogh	- Night Cafe	Daumier	- Washerwoman
van Gogh	- Courtyard Garden in St. Remy	Delacroix	- Liberty Leading the People
van Gogh	- Crows Over the Wheat Field	Pollock	- Painting 1945
van Gogh	- van Gogh's Bedroom	de Kooning	- Woman 1
Michelangelo	- Holy Family	Franz Kline	- Cardinal 1950
Unknown	- Last Judgment	Rothko	- Yellow and Gold
Unknown	- God Creating the Sun and Moon	Barnett Newmann	- Vir Heroicus Sublimus
Unknown	- Separation of Light and Dark	Clyfford Still	- Painting 1948 F
Unknown	- Virgin and Child with St. John and Angels	Robert Motherwell	- Elegy to the Spanish Republic, 35
Rembrandt	- Portrait of Jan Six	Edouard Manet	- Bar at the Folies Bergere
Unknown	- Night Watch	Claude Monet	- Gare St. Lazare 1877
Unknown	- Portrait of Titus	Claude Monet	- Haystacks, 1891
Unknown	- Supper at Emmaus	Renoir	- Moulin de la Galette
Goya	- Shootings of May 3, 1808	Degas	- Dancing Class
Picasso	- Guernica	Seurat	- La Grande Jatte
Gericault	- Raft of the Medusa	Paul Gaugin	- Vision After the Sermon
George Segal	~ The Bus Driver		142 cont

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ART 30 SLIDE LIST

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Artist	<u>Title</u>	Artist	<u>Title</u>	
van Gogh	- Church at Auvers	Miro	- The Poetess	
Cezanne	- Provence Landscape	Picasso	- Family of Saltim Bang Study	lues,
David	- Oath of the Horatii	Picasso	- Family of Saltim Band	lues
Degas	- Absinthe Drinkers	Picasso	- The Old Guitarist	
Daumier	- Third Class Carriage	Picasso	- Harlequin, 1915	
Goya	- Pest House	Josef Albers	- Homage to the Square	Silent
Max Beckmann	- Departure	0000	Call	
Ben Shahn	- Liberation 1945	Hans Hofmann	- The Golden Wall	
Kathe Kollwitz	- Vienna is Dying	Marisol	- The Family 1962	
van Gogh	- The Potato Eaters	Jasper Johns	- Target W. Four Faces	
Michelangelo	- Studies for the Libyan Sibyl	Picasso	- Studio, 1955	
Paul Klee	- Full Moon Over the Town			
Mantegna	- Madonna and Child			
Leonardo da Vinci	- The Deluge			
Durer	- The Hare			
Henry Moore	- Pink and Green Sleepers			
Rembrandt	- A Cottage Among the Trees			cont



ART 21 SLIDE LIST

Artist	<u>Title</u>	Artist	<u>Title</u>
Unknown	- Lascaux: Detail, Engraved Deer	Unknown	- Catching Birds
Unknown	- Lascaux: A Bison	Unknown	- Hunting Scene
Unknown		Michelangelo	- Tomb of Giuliano De'Medici
	- General View, Stonehenge	Michelangelo	- Right Side of Moses - From
Unknown	- View of Pyramids at Dawn		Julius II
Unknown	- Khufu, Model	Picasso	- Guernica
Unknown	- Venus of Willendorf	Michelangelo	- Creation of Adam
Unknown	- Mother and Child - Haida	Piero della Francesca	- Resurrection of Christ
Unknown	- Ceremonial Effigy Mask, Eskimo	Unknown	- Athens - Erechtheon
Unknown	- War Helmet, Tlingit	Unknown	- Parthenon West Facade from Below
Unknown	- Pyramid of Zoser	Unknown	- Rome - Arch of Titus
Unknown	- Ishtar Gate	Unknown	- Rome - Detail: Arch of Titus
Unknown	- Mycenae Lion Gate	Unknown	- Rome - Colosseum
Unknown	- Mycenae Grave Circle	Unknown	- Rome - Trojan's Column
Unknown	- Rahotep and Nofret	Unknown	- Rome - Pantheon Interior
Unknown	- Tutankhamen's Mask	Carlo Maderno	- Facade of St. Peter's
Unknown	- Workers in Papyrus Thicket	Unknown	- Chartres: West Facade

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cont....

ART 21 SLIDE LIST

FRIC	147		76
Michelangelo	- David	•	cont
Donatello	- St. Mark	Goya	- Shootings of May 3, 1808
Donatello	- Gattemalatta	Rembrandt	- Aristotle Before Homer
Donatello	- David	Kollwitz	- Death Takes the Children
Unknown	- Marcus Aurelius, Equestrian	Toulouse-Lautrec	- At the Moulin Rouge
	Jerusalem	Millet	- The Gleaners
Unknown	- Arch of Titus. Spoils of	Altdorfer	- Battle of Issus
Unknown	- Hermes and Dionysus	David	- Oath of the Horatii
Unknown	- Kouros	David	- Death of Marat
Unknown	- Assurnasirpal Slaying Lion	David	- Death of Socrates
Unknown	- Assurnasirpal II Shooting Lion	Gericault	- Raft of the Melusa
Unknown	- Sumerian, Goat in Thicket	Lorenzetti	- Market Scene: Good Government
Unknown	- Anubis, Jackal-Headed God	Giotto	- Lamentation
Unknown	- Khafre: Seated Portrait	Unknown	- Villa of Nysteries: Dionysiac
Unknown	- Salisbury Cathedral Facade	Exekis	- Achilles and Ajax at Draughts
Unknown		Rodin	- Burghers of Calais
IInlmorm	- Florence: Palazzo Vecchio	Unknown	- Chartres, South Tympanum
Unknown	- Versailles: Galerie Des Glaces	Unknown	- Royal Portal. Chartres
Artist	<u>Title</u>	Artist	Title





ART 21 SLIDE LIST

Artist	<u>Title</u>	Artist	Title
Unknown	- Tres Riches Heures: May: A Cavalcade	Dore	- Inferno XXXI Level of Traitors
Durer	- Apocalypse (Woodcut)	Unknown	- Book of Durrow
Holbein	- Portrait of Henry VIII	Unknown	- Echternach Gospels
Botticelli	- Dante's Inferno: Canto XV	Unknown	- Lindisfarne Gospels
Unknown	- Utrecht Psalter PS. 73	Claesz	- Still-Life
Unknown	- EBO Gospels	Mondrian	- Composition in White, Black and Red
Unknown	- Ravenna: Emperor Justinian	Picasso	- Harlequin 1915
Delacroix	- Dante and Virgil in Hell	Matisse	- Goldfish and Sculpture 1911
Courbet	- Funeral at Ornans	Picasso	- Magolie 1911-12
Daumier van Gogh	- The Washerwoman - The Starry Night	Klee	- Twittering Machine 1922
Constable	- The Haywain	Dali	· Persistence of Memory
	•	Leger	- The City 1919
Warhol	- Gold Marilyn Monroe 1962	Calder	- Constellation with Red Object
Vasarely	- Kalota 1963	Stella	- Jasper's Dilemma
Cellini	- Saltcellar of Francis I	Chagall	- Birthday 1915
Unknown	- Purse Lid: Sutton Hoo	Cezanne	- Still-Life with Apples
Daumier	- Rue Transnonain	Braque	- Oval Still-Life: The Violin

ART 31 SLIDE LIST

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	Artist	Title	Artist	<u>Title</u>
	Helen Frankenthaler	- Jacob's Ladder	Jackson Pollock	- Full Fathom Five
	Morris Louis	- Alpha Tau 1961	Salvador Dali	- Persistence of Memory
	Kenneth Noland	- And Again 1964	Marc Chagall	- I and the Village
	Frank Stella	- Takht-1-Sulayman 1, 1967	Piet Mondrian	- Broadway Boogie-Woogie
	Josef Albers	- Homage to the Square: Silent	Fernand Leger	- Three Women
	Mark Rothko	- White and Greens in Blue,	Joan Miro	- The Harlequin's Carnival
	Mark Rochico	1957	Jean Arp	- Leaves and Novels
	Wassily Kandinsky	- Church at Murnau 1929	Jean Arp	- Human Lunar Spectral
	Pablo Picasso	- Guernica	Rene Magritte	- The Promenades of Euclid
	Pablo Picasso	- Three Musicians	Giorgio de Chirico	- The Nostalgia of the Infinite
	Pablo Picasso	- Night Fishing at Antibes	Rene Magritte	- Castle of the Pyrenees
	Pablo Picasso	- Studio with Plaster Head	George Segal	- The Bus Driver
	Pablo Picasso	- Pierrot, 1918	Claes Oldenburg	- Floor Cake
	Pablo Picasso	- Acrobat's Family with Monkey	Andy Warhol	- Gold Marilyn Monroe
	Pablo Picasso	- Girl Before a Mirror	Franz Kline	- Accent Grave
	Pablo Picasso	- Woman in the Garden	Jamie Wyeth	- Christine's World
	Constantin Brancusi	- Mademoiselle Pogany	Victor Vasarely	- Kalota
	Edward Manet	- Ball Scene 1873		cont
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ART 31 SLIDE LIST

Artist	<u>Title</u>	Artist	Title
Hans Hoffmann	- Golden Wall, 1961	Amedeo Modigliani	- Anna Sborowska
Robert Delaunay	- Sun Disks	Max Ernst	- Elephant of the Celebes
Roy Lichtenstein	- Drowning Girl	Paul Klee	- Spring is Coming
Henry Moore	- Family Group	Robert Smithson	- Learning Strate
David Smith	- Australia	Christo	- Museum of Modern Art Packaged
Anthony Caro	- Source	Kathe Kollwitz	- Vienna is Dying
Alexander Calder	- Lobster Trap and Fishtail	Henri Matisse	- Jazz: The Circus 1947
Louise Nevelson	- Sky Cathedral	Toulouse-Lautrec	- Jane Avril (Poster) 1899
Bridget Riley	- Current	Miriam Shapiro	- Flying Carpet 1972
Henri Matisse	- Dance	Christopher Pratt	- Shop on an Island
Henri Matisse	- The Open Window, Collioure	Alex Colville	- Church and Horse
Claude Monet	- Water Lilies (centre) 1920	Jack Shadbolt	- Winter Poppies
Paul Cezanne	- L'Estaque	William Kurelek	- The Ukrainian Pioneer #6
Paul Gaugin	- The Moon and the Earth	Gordon Smith	- West Coast M-5
Vincent van Gogh	- Starry Night	Takao Tanabe	-) -)
Georges Braque	- Still-Life with Pitchers	Norman Yates Robert Sinclair	-) Alberta Landscapes -
Juan Gris	- Guitar, Bottle and Glass	A.C. Leighton Illingworth Ker Barbara Ballachey Maureen Enns) one example of each) artist.))

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- Booklet listing available.

• Alberta Culture

Information Centre

Visual Arts

3rd Floor, 10158 - 103 Street

Edmonton, Alberta

T5J 0X6 Tel.: 427-2031

All publications are available free of charge. Phone or write for Art Information Catalogue.

- Technical manuals, bibliographies and materials and supplies list for eleven media.
- Information on Arts Administration, Art Marketing, Art Promotion, Exhibition and Display.
- Descriptions of various components of Alberta Culture, as well as the programs offered.
- <u>Visual Arts Newsletter</u> is published bimonthly.

. A.T.A. Fine Arts Council

Barnett House

11010 - 142 Street Edmonton, Alberta

T5N 2R1

- Provincial organization.
- Membership and subscription information.
- Visual and print bibliographies.
- Publication: FINE.
- In-services.
- Personnel Resources File.

cont

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- Canadian Society for Education Through Art (C.S.E.A.) National Office 3186 Newbound Court Malton, Ontario L4T 1R9
 - National organization.
 - Membership and subscription information listings.
 - Pamphlets and article reprints.
 - Publications: Annual Journal; Canadian
 Review of Art Education Research
- Catalogues of Canadian artists include information about: biographies, works of art, exhibitions, sales, reproduction availability. Information is available for historic and contemporary artists, and encompasses artists from all geographic regions in Canada.

Some catalogues listed in library holdings:

- A Directory of Eskimo Artists in Sculpture and Prints.
- Alberta Art Foundation Inventory of Art-Works Acquired to February, 1980.
- Catalogue of the Library of the National Gallery of Canada.
- Art Gallery of Ontario the Canadian Collection.
- Canadian Art at Auction.

- Center for Occupational Hazards 5 Beekman Street New York, N.Y. 1003B (212-227-6220)
 - Organization to gather and dispense information about hazardous materials.
 - Subscription information.
 - Extensive publication list available.
 - Newsletter: Art Hazards News.
 - Workshop, research updates.
- National Art Education Association (N.A.E.A.)
 1916 Association Drive
 Reston, Virginia 22091
 - International organization.
 - Membership and subscription information.
 - Pamphlets and research listings.
 - Publications: Art Education, Studies in Art Education, Visual Arts Newsletter.
- Provincial Museum of Alberta
 12845 102 Avenue
 Edmonton, Alberta
 T5N 0M6

Attn.: Museum Bookshop. (403-427-1765)

- Profiles is a binder style book containing histories and source list readings for 50 ethnic groups in Alberta; very reasonable cost.

cont....

- See "Hazardous Art Materials and Occupational Safety" for further listing of books, pamphlets, and posters that are available.
- Material is available also through media centers or teacher resource centers within each school board.
- Over 200 art periodicals are listed in various library indexes.

c.Additional Visual Resources NAMES, ADDRESSES AND MATERIALS DESCRIPTION.

C.1 Slide Resources.

- . Alberta Culture
 Information Centre
 Visual Arts
 3rd Floor, 10158 103 Street
 Edmonton, Alberta
 T5J 0X6
 (403-427-2031)
 - An inventory of slides is available from the Child Art Education program.
- American Slide Library Color Slide Co. Inc.
 P.O. Box 5810
 Grand Central Station New York, N.Y. 10017
 - Catalogues available.
 - Individual slides and sets.
- Art Gallery of Ontario 317 Dundas Street West Toronto, Ontario M5T 1G4
 - Individual slides of Canadian artists.

cont....



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- Glenbow Museum

 130 9th Avenue S.E.

 Calgary, Alberta

 T2G 0P3
 - 'Photographic Price List: Curatorial' is available.
 - Individual slides.
- National Gallery of Canada Slide Sales Publications Dept.
 Ottawa, Ontario
 K1A 0M8
 - Catalogue available of Canadian Artists' works; individual slides and sets.
- National Gallery of Art Extension Service
 Washington, D.C. 20565
 - Catalogue of slide programs is available.
- National Women's Art Museum Washington, D.C.
 - Opening in 1986, will have slide, audiovisual information available.

- Rosenthal Slide Library
 Rosenthal Art Slides
 5456 South Ridgewood Court
 Chicago, Illinois 60615
 - Catalogues available.
 - Individual slides and sets.
 - Includes all areas of the visual arts.
- Sandak, Inc.
 180 Harvard Avenue
 Stamford, Conn. 06902
 - Catalogues of major museum collections, modern and historic.
 - Individual slides and sets.
- C.2 Art Works and Art Reproductions.
 - Alberta Education Regional Offices
 (see addresses listed in Additional Print Resources, Section B.)
 - Alberta artists' works available for classroom display.

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cont....

- Alberta Art Foundation
 Information Centre
 Visual Arts
 3rd Floor, 10158 103 Street
 Edmonton, Alberta
 T5J 0X6
 (403-427-2031)
 - Brochures and catalogues of exhibitions held.
- Alberta Culture Information Centre Visual Arts 3rd Floor, 10158 - 103 Street Edmonton, Alberta T5J 0X6 (403-427-2031)
 - Catalogues of exhibitions held.
 - Posters of past exhibitions, as well as art education promotion.
- Glenbow Museum
 130 9th Avenue S.E.
 Calgary, Alberta
 T2G 0P3
 - 'Photographic Price List: Curatorial' is available.
 - Black and white, and color photographs and enlargements.

- Harper and Row Media Department
 10 East 53rd Street
 New York, New York 10022
 - Rental/purchase of four slide sets about women artists.
- Metropolitan Museum of Art
 82 Street 5th Avenue
 New York New York 10028
 - Slides, sound/slide sets, prints, posters,
 publica ions, recordings, postcards,
 3-D reproductions.
 - Catalogues available.
- Museum of Modern Art
 11 West 53 Street
 New York, New York 10019
 - Reproductions available.
- . N.A.E.A.
 1916 Association Drive
 Reston, Virginia 22091
 - Lists of visual material available.
- National Gallery of Art Washington, D.C. 20565
 - Catalogues of reproductions available.

cont....



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- Postured are available from many art gallordes and museums. Packets of postcards can be used as a teaching aid one concept rendered by several artists; or/ the development of an artist's style for individual student or small group study.
- Reinhold Visual Series
 Van Nostrand Reinhold Ltd.
 1410 Birchmount Road
 Scarborough, Ontario
 M1P 2E7
 - Reproductions; black and white and color.

C3. Audio-visual materials (loan rental, purchase).

- ACCESS
 Media Resource Center
 16930 114 Avenue
 Edmonton, Alberta
 T5M 3S2
 (403-451-3160)
 - Catalogue available in most schools.
 - Videotape material.

- Alberta Agriculture
 Film Library
 7000 113 St.
 Edmonton, Alberta
 T6H 5T6
 - Catalogue available.
 - Loan.
 - Films on quilting, fabric work batik, block printing.
- Alberta Culture
 (see address listed previously)
 - An inventory of films, slides and kits available from the Child Art Education program.
- Alberta Cultural Heritage Foundation 202, 9924 - 106 Street Edmonton, Alberta T5K 1C4
 - Alberta People Kit multimedia, cultural heritage awareness education kit for upper elementary classes.
 - Purchase.



cont....

- . Canadian Film Institute Film Library #204 - 211 Watline Avenue Mississauga, Ontario L4Z 1P3
 - Catalogue charge of \$15.00.
 - Rental rates approx. \$2.00 a minute, decreasing with length of film.
- . Films from Consulates and Embassies may be useful.
- Films on Art: (book) Watson - Guptill Publications.
 - Composite listing of art films and sources.
- Institutional media centers universities, technical schools, art colleges.
- McIntyre Educational Media Ltd. 86 St. Regis Crescent North Downsview, Ontario
 - Catalogues available.
 - Purchase, film strips and cassettes.
 - Individual filmstrips, and series.
- . Media centers or teacher resource centers in school boards may have film listings.

- . National Film Board Main Flr. 222-1 St., S.E. Calgary, Alberta T2P 3C3
- Centennial Bldg., 10031 - 103 Ave. Edmonton, Alberta T5J 0G9
- Catalogue available.
- 16mm films.
- Loan
- . Sandak, Inc. 180, Harvard Avenue Stamford, Connecticut 06902
 - Catalogues available.
 - Filmstrips and cassettes available individually or in series.
 - Purchase.
- . The Center for the Humanities, Inc. 2 Holland Avenue White Plains, N.Y. 10603
 - Filmstrip and slide programs.
 - Purchase.
- . Time-Life Video Time-Life Building Chicago, Illinois 60111
 - Catalogue available.
 - Rental.

cont...



D. Personnel, Centers, Organizations and

Institutions: NAMES, ADDRESSES AND BRIEF DESCRIPTION.

- . Alberta Association of Multicultural Education c/o Treasurer, AAME
 Edmonton Public School Board
 10010 107A Avenue
 Edmonton, Alberta
 T5H 0Z8
 - Organization to support multicultural and intercultural education in schools and communities.
- Alberta College of Art 1301 - 16 Avenue N.W. Calgary, Alberta (403-284-8651)
 - Gallery.
 - Open house tours.
- . Alberta Culture

(see address previously listed)

Cultural Heritage: Programs and Services

- Funding program, multicultural training program.
- Information program: a directory of ethnocultural groups in Alberta; <u>Heritage</u>, a magazine; <u>Update</u>, a newsletter; <u>Profiles</u>, a book.

- Alberta Culture Library is on the 11th floor, CN Tower, in Edmonton.
- · Alberta Culture

(see address previously listed)

- Workshops, programs, services are listed in the Art Information Catalogue, 1983-84.
- Beaver House Gallery shows works of amateur, student and professional artists.
- Art Consultants
 Alberta Education Regional Offices
 (see addresses in Additional Print Resources section)
- ATA Fine Arts Council
 Barnett House
 11010 142 Street
 Edmonton, Alberta
 T5N 2R1
 - Membership and newsletter.
 - Regional conferences.

cont....



- Alberta Vocational Center Grouard, Alberta.
 - Native craft museum.
 - Workshops on clothing, artifacts using e.g., Northern Cree, Black Foot, Alquoguin.
- Banff Center School of Fine Arts Visual Arts Department P.O. Box 1020 Banff, Alberta TOL 0C0
 - Gallery; winter/summer courses.
 - Coordinates 'Artists in the Schools' program.
- Canadian Society for Education Through Art National Office 3186 Newbound Court Malton, Ontario L4T 1R9
 - Membership and newsletters.
 - National conferences.
- Cultural Centers (provided by Glenbow)

- Continuing education departments of community colleges and universities offer a variety of art courses.
- Edmonton Art Gallery
 Art Education Department
 2 Sir Winston Churchill Square
 Edmonton, Alberta
 T5J 2C1
 (403-422-6223)
 - Exhibitions, art classes, lectures, gallery magazine, research library, slide library.
- Glenbow Museum
 Education Department
 130 9 Ave., S.E.
 Calgary, Alberta
 T2G 0P3
 - Historical and contemporary exhibitions.
 - Lectures, films, education and extension programs, Glenbow magazine, library, archives, artists' biographies.
- Leighton Center for Arts and Crafts
 Box 38
 Midnapore, Alberta
 - Courses in a variety of media.

cont....



- Multicultural Heritage Centre
 5411 51 Street
 Box 908
 Stony Plain, Alberta
 T0E 2G0

 (403-963-2777)
 - Gallery, heritage program, art courses, craft courses, a museum, and artists' biographies.
- Muttart Gallery
 2nd Floor, 1221 2 St., S.W.
 Calgary, Alberta
 T2R 0W5
 - Galleries.
 - Community exhibitions.
- National Art Education Association 1916 Association Dr. Reston, Virginia 22091
 - Membership and newsletters.
 - Regional and international conferences.
- Prairie Art Gallery
 9809 102 Street
 Grande Prairie, Alberta
 T8V 2V1
 - Galleries.
 - Workshops and classes.

- Provincial Museum of Alberta
 12845 102 Avenue
 Elementon, Avenue
 T5N 0M6
 (403-427-1730)
 - Art exhibitions emphasize documentary or historical representational works.
 - Art education classes.
- Red Deer and District Museum Box 762 Red Deer, Alberta T4N 5H2 (403-343-6844)
 - Historical works in all media, lectures, films and other events in connection with its exhibitions.
- Southern Alberta Art Gallery
 601 3rd Avenue, S.
 Lethbridge, Alberta
 T1J 0H4
 - Galleries
 - Classes and workshop.



Index to Hazardous Art Materials and Occupational Safety

A. Resources

A.1 Listing of Contacts for Resources.

B. Occupational Safety

- B.1 Ventilation
- B.2 Noise
- B.3 Illumination
- B.4 Storage
- B.5 Kilns and Photographic Darkrooms
- B.6 Asbestos
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C. Art Materials

- C.1 Dangerous Art Materials
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Hazardous Art Materials and Occupational Safety

A. RESOURCES

A.1 Listing of Contacts for Resources

 Ad Hoc Committee on Walth Hazard in Arts and Crafts Materials.

Health Protection Branch of Health and Welfare Canada, Ottawa, Ontario.

Contact: John Harrison, Secretary, at 613-990-8861.

- Committee formed in September, 1982; main intent is to increase public awareness of hazards.
- Large wall charts are available regarding hazards in: Pottery and Ceramics, Dyes and Fibers, Jewellery, Photography and Painting and Printmaking. Available free of charge.

Write to:

Health and Welfare Canada 5th floor, Brooke Claxton Bldg. Ottawa, Canada K1A OK9

- Alberta Workers' Health, Safety and Compensation. <u>Design Criteria for the Control</u> of Health Hazards in Schools.
 - Booklet contains bibliography.
 - Concerns ventilation, noise, illumination, sprayed-on asbestos.

- "Woodworking Exhaust Ventilation Requirements for Industrial Art Areas in Alberta High Schools" available.
- "The Control of Fibre Released from Sprayed-On Asbestos Containing Surfaces" available.

Copies of booklets and additional information available at the following addresses:

Occupational Health Branch

9321 - 48 St.

2nd Floor

Edmonton, Alberta

1021 - 10th Ave., S.W.

T6B 2R4

Calgary, Alberta

(403)427-4792

T2R 2E7

(403)261-2188

- Alberta Lung Association 10618 - 124 St. Edmonton, Alberta T5N 3X4 (403)482-6527
 - Will provide information on acquiring Health Hazards in Arts and Crafts, published by the Ontario Lung Association), 16 pp.
 - Also will provide information on acquiring <u>Health Hazards in the Arts</u>, a bulletin published by the American Lung Association.
 - May be a fee, depending on number of copies requested.

cont...



 The Arts and Crafts Material Institute, Inc. (formerly Crayon, Watercolor and Craft Institute).
 715 Boylston Street Boston, M.A. 02116

- Will send list of approved, safe (not toxic or injurious) art materials.
- Look for seals of approval (AP) or (CP) on materials used in classroom.
- Art Team Program Development. Safety Bulletin Art Education.

Calgary Board of Education, Calgary, Alberta, 1979.

- B.C.A.T.A. Art Hazards in the Classroom: A Learning Conditions Draft. Vol. 21 No. 2, March 1981.
 - Contents compiled from Art Hazards
 Newsletter to 1981; 21 pages.
 - Includes resources list.
 - Draft has since been approved by B.C.
 Federation.
 - Copies can be obtained by sending \$2.00 (cheque or money order payable to B.C. Art Teacher's Association) to:

Bob King c/O Port Moody Senior Secondary 300 Albert Street Port Moody, B.C. V3H 2M5

- . Bingham, Eula, ed. Women and the Workplace.
 - Health problems, including siggestions for improvements in the workplace for both men and women.

Available from:

Society for Occupational and Environmental Health,

1714 Massachusetts Avenue, N.W. Washington, D.C. 20036

• Carnow, Bernard • Health Hazards in the Arts and Crafts •

Available from:
Hazards in the Arts,
Box 110, Route 1
Steuben, Wisconsin 54657

- Center for Occupational Hazards, Inc.
 Beekman St.
 New York, New York 10038
 (212)227-6220
 - Art Hazards Newsletter is published monthly. Contains research findings, publications lists, Calendar of Events, subscription fee.
 - C.C.H. will also answer any written or telephoned inquiries regarding art materials or occupational conditions.
 - Send a self-addressed, stamped envelope to C.O.H. to receive publications list.

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- C.O.H. Art Hazards Courses.
 - Interest in sponsoring courses on health hazards can be directed to information center of C.O.H.

Center for Occupational Hazards, Inc. 5 Beekman St. New York, New York 10038 (212)227-6220

- Government of Alberta. Health and Safety in Printmaking.
 - Highly recommended manual, approximately 100 pages; nominal charge.

Queen's Printer Building 11510 - Kingsway Avenue Edmonton, Alberta T5G 2Y5

- · Harrison, John Toxicological Advisor Environmental and Occupational Toxicology Division Health and Welfare Canada Ottawa, Ontario K1A OL2 (613)990-8861
 - Mr. Harrison will make available reprints of his article 'Art Smart'; (Living

- Safety, Winter 1983/84) which contains a list of further contact associations.
- Can provide 'Guidelines on toxic and hazardous chemicals, used in educational institutions' for \$1.50.
- Very good information on classification, criteria, storage compatibility, and disposal, as well as bibliography.
- . McCann, Michael. Artist Beware: The Hazards and Precautions in Working with Art and Craft Materials. New York: Watson-Guptill, 1979.
 - Also available through the publications list of the: Center for Occupational Hazards, Inc. 5 Beekman St.

New York, New York 10038

. Ontario Crafts Council. "A Personal Risk Assessment for Craftsmen and Artists." "Crafts and Harards to "ealth." An A/V kit also available.

Contact:

Ontario Ontakio Casta. Council 346 Dunlar Stock West Poronto, Ontario M5T 1G5 (416) 977-3557

cont....

- Peltz, P. and Rossol, M.
 "Children's Art Materials Can Be Toxic."
 - 7 page data sheet; \$1.40.
 - Also available through the publications lists of the C.O.H.

Center for Occupational Hazards 5 Beekman St. New York, New York 10038

• Siedlicki, Jerome. The Silent Enemy:

Potential Health Hazards in the Arts and
Their Control.

Available from:
Artists Equity Association
2813 Alber Ma le St., N.W.
Washington, D.C. 20008

B. Occupational Safety

Information in this section was derived primarily from Design Criteria for the Control of Health Hazards in Schools published by the Occupational Hygiene Branch of Alberta. Teachers are encouraged to gather information from primary sources such as the one cited, as the following information has been summarized and is not definitive.

B.1 Ventilation

Two types of ventilation - general and local - assist in the control of contaminants such as dust, odors, gases, vapors, mists, and hot air. Ventilation also helps to control heat build-up and humidity. An open window is not considered sufficient in providing the air circulation essential for the prevention of health hazards or risks. In some contaminant cases, opening windows will only further human contact with the hazardous material.

General ventilation refers to the number of times an hour the air for the whole facility is changed. Three to six air changes per hour are recommended for fine arts rooms. Also recommended is the maintenance of a slight negative air pressure in the room. Negative air pressure would assist in containing contaminants in the fine arts area, rather than spreading these throughout the school. However, general ventilation is not capable of reducing contaminant hazards associated with particular art materials that may be used.

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Local ventilation refers to systems designed specifically for contaminant situations. For example, cross draft systems, hoods closed on three sides and backdrafted vents are systems that effectively control contaminants in silk-screening, making plastics, or etching, respectively. Local ventilation must be selected and installed by ventilation experts. Teachers are encouraged to seek further information when ventilation problems are mentioned in the section on 'Hazardous Art Materials'.

The benefits of local ventilation are described in many occupational health manuals. Briefly, the students suffer less exposure to a contaminant, if the proper system is used, than they will suffer with only general ventilation. Also, asids from installation costs, local ventilation is cheaper and more efficient to use than general ventilation as it is specific to the problem, and can be shut off when not required.

B.2 Noise

Excessive noise in any room in the school may cause problems. Make sure students are wearing industrial ear protection when using woodworking or metal working equipment for extended periods of time.

B.3 Illumination

Full spectrum fluorescent tubes combined with natural lighting is considered an optimum lighting situation. Be advised that fluorescent tubes lose 20% to 40% of their efficiency after 18 to 24 months of use. Changing tubes reduces the amount of fuzzy noise that can be heard when fluorescent lighting is used.

B.4 Storage

Limit storage of volatile materials in the art room to a few days. Store the remainder of the volatile or hazardous materials in a central storage area, first ensuring that the exhaust system will remove air to the outside of the building. Specific volume exhaust is recommended at .005 m³/s per m² floor area.

B.5 Kilns and Photographic Darkrooms

Kilns must operate in a room separate from the art room and must be vented to the outside by a canopy hood providing a capture velocity of .25 m/s (50 fpm).

Photographic darkrooms should also be vented to the outside of the building. Black and white developing requires ten air changes per hour. A capture velocity of $.75 \text{ m}^2/\text{s}$ per square meter of surface area of trays is necessary in color developing.

Teachers must inform themselves of the proper use and maintenance of their kilns, as well as the appropriate and conscientious behavior necessary when in a dark room, by consulting primary resources.

B.6 Ashesti ;

Asbestos may have been used in fireproofing, insulation, acoustic and decorative capacities in the school plant. The surface can be treated in various ways in order to remove it from human contact. If the surface has been damaged, the contaminant fibers are being released, and a procedure to remove the asbestos from human contact MUST be completed.

B.7 Behavioral Precautions (from B. Carnow's <u>Health Hazards in the Arts</u> and J. Harrison's <u>Art Smart</u> - see Resources)

Preventative and precautionary behaviors will enable students and teachers to use art materials in safe ways. The effects of using hazardous materials <u>can</u> be minimized.

• Find out the contents of the materials you use. You may have to write to the manufacturer to get this information. If toxic, use and store appropriately. Look for substitutes. Consider other forms (e.g., liquid instead of aerosol).

- Keep the work area <u>clean</u>. Use and teach hygienic practices. Store all liquids in sealed containers. Cover powders. Keep bulk volatile substances in separate storage areas. Wet mopping is recommended over dry sweeping.
- Personal hygiene is essential. Wash hands after using solvents, metals or other toxic substances. Keep fingernails short and clean when using lead, cadmium, mercury, cobalt or similar materials. Do not eat or smoke in the work area to avoid possible ingestion or inhalation of toxic substances. Protective clothing should be worn at a propriate times: safety goggles for grinding, sanding, welding; gloves and long sleeves when using solvents; masks when working with powders, dusts and fumes.
- Work in properly ventilated a case Tap room cool and humid, not hot, dry o dark.
- When health problems are suspected, make sure that the physician knows the circumstances and the materials that you or your students have been exposed to. The Center for Occupational Hazards, Inc. can provide names of physicians particularly cognizant of the health hazards of art materials.

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C. Art Materials

Materials used in the art room pose health risks ranging from undergoing slight irritation to developing a major illness or disease. Ingestion, inhalation, and absorption are the three methods by which toxic materials irritate the body. Precautionary and preventative measures practised by the teacher will reduce the health risks posed by various art materials.

The following information and format was drawn primarily from the Manitoba Elementary Art Curriculum, 1983. The extensive list of materials and useful precaution/substitution column povided an excellent resource for this section. Materials were added that are often found in junior high art rooms. Again, teachers are advised to go to more extensive primary resources in order to examine fully, hazardous potentials associated with various materials. Once information is acquired, environmental organization and technical behaviors can be incorporated, and health-oriented practices can be taught and practised.

C.1 Dangerous Art Materials

These materials are extremely dangerous and must not be used:

Aerosal fixative sprays Arsenic oxide (glaze) Asbestos Benzene

Benzedine-type dyes in some colored papers Cadmium silver solder Carbon disulfide Carbon tetrachloride Chloroform Cyanide solutions (potassium ferro cyanide) Dioxane Ethylene dichloride Lead chromate Methyl butyl ketone Methyl hydrate Perchlorethylene Phenol Talc clays Tetra chlorethylene Tri chlorethylene Uranium oxide (glaze) vermiculite Zinc chromate

cont....



C.2 Hazardous Art Materials*

MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Aerosol Sprays	 organic solvents used in the sprays very fine particles of resins, paints, or lacquer propelled into the air greatest danger by inhalation of mists highly explosive 	 paints containing highly toxic pigments SHOULD NOT BE USED use only in a ventilated area or substitute other techniques for the application of coatings use water soluble materials if possible never use mouth atomizers
Asbestos (used in room as insulation, acoustical, decorative, fireproofing)	 asbestosis, lung cancer, and mesothelioma from damaged surfaces releasing fibers 	- GET RID OF by stripping, enclosure, and encapsulation (see 0.H. Branch)
Bark	- dermatitis from some species	- gently wash burlap before using it if this is a problem
Benzene	- may destroy bone marrow causing a plastic anemia and leukemia	- DO NOT USE; use toluene or xylene, with precautions
Burlap	dustskin allergiesirritation if treated with formaldehyde	- gently wash burlap before using it if this is a problem
Candle Making	- dyes, mould release possibly toxic - fire hazard from heating wax - irritating fumes released from over-heating	- paraffin is safe - use only double boiler method for melting wax - use ventilation
Carbon Tetrachloride	- highly toxic; known to cause liver cancer	- DO NOT USE
Cedar	- skin	
Ceramic Tiles	eye damage from glass splintershand cuts from sharp edges	- wear goggles to protect eyes - wear gloves to protect hands

^{*} Adapted from Appendix A: Hazardous Art Materials, 7-9 ART Manitoba; Department of Education, 1983.



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MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Charcoal	- may contain carbon black (carcinogenic due to impurities)	use only non-toxic typesuse vine charcoaluse vinyl or rubber gloves when using sticks
Clay	- silicosis (potter's lung) from inhalation of dust from dry clay - cuts and abrasions from wet clay with grog - dermatitis from bacteria mould or fungus in wet clay with grog	 buy clay wet always use clay wet use clay without grog for young children mix or sand within local exhaust hoods provided 1.5 m/s face velocity get lung x-ray and have pulmonary function test every second year if you use clay frequently in the program; current literature indicates pulmonary function taken over many years is a better indicator of problems than is x-ray for silicosis
Clay - Low Fire	- fumes from firing - can be a talc body (usually contains asbestos)	- kiln vented to outside by canopy hood providing capture velocity of .25 m/s - use non-talc clays - insist on asbestos-free clay
Clay Talc Ecdies (Low-Fire Clay)	- may contain as much as 20% asbestos	- don't use talc clays (usually found in low-fire clay)
Colored Acetate Inks	- acetate solvents (eye, nose, throat irritant) used to etch color onto the acetate	- use water-soluble inks with a small amount of detergent (one drop); roughen plastic with 0000 steel wool to help ink adhesion OR - use coated acetate sheets (cells) that will take ordinary colored inks and dyes
Colored Inks	- may contain benzedine-type dyes, (can cause bladder cancer)	- use in areas .25 m/s capture velocity - use only those labelled non-toxic - use food coloring

MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Construction Paper	- may contain toxic dyes as color - may be treated with fungicide (mercury compounds)	 use non-toxic materials avoid wetting the paper prevent students from chewing the paper or putting it in their mouths
Copper Metal	- slight toxicity (will cause allergies in some people) - metal fume fever from copper powder (sanding dust) possible	- use a fume hood
Copper Tooling Toner	 liver of sulphur (potassium sulfide) used in toner - moderate to high toxicity dermatitis alkali and hydrogen sulfide, products of decomposition 	- wear goggles and gloves when handling - use a fume hood
Cotton Duck or Canvas	- dust - skin allergies if treated with fungicide (irritant)	- wash fabric before use if it causes a problem
Crayons	- toxicity of some brands	- use only non-toxic crayons - leave paper wrapper on to protect fingers from contact with the wax
Cyanotypes	 potassium ferrocyanide used in activity highly toxic hydrogen cyanide gas released when decomposed after heating, addition of acid, sitting after heating, addition of acid, sitting after being mixed, exposure to ultraviolet light (fluorescent light and sunlight) 	- this is a dangerous chemical that should never be used in the classroom - use portrait proof paper (no developing required) or blueprint paper exposed with sunlight

MATERIAL/MEDIUM	HAZARD	precaution/substitute
Developer	- skin and eye irritation - toxic by inhalation	 use mechanical ventilation use gloves and goggles: never put bare hands in developer solution use tongs use care in cleaning up
Etching Acids	- strong irritants, especially in concentrated form, of eyes, nose and throat - gases and mists are inhalation hazard	- mixing and etching should be done under local ventilation to prevent inhalation of acid mists; trays should be in a back-drafted hood, providing a mininum of capture velocity of 0.5 m/s
Electric Fry-Pan (for heating wax)	- irritating fumes released from pyrolization of wax spatters over pan	- cover exposed parts of pan with removable aluminum foil and replace frequently - use pan in good repair
Ероху	- toxic by skin contact and inhalation	- wear gloves and goggles - use a fume hood
Feathers	- anthrax infection possible from wildfowl feathers	- use domestic fowl feathers or processed (pre-colored) feathers from a craft store
Felt Pens	- toxic organic solvents in permanent types	- use non-toxic, water-soluble markers
Fibre Dyeing (Natural Dyes)	 moderate toxicity from roots such as logwood salmonella contamination of cochineal mordants; of particular concern are Oxalic acid: high toxicity Potassium dichromate (chrome): suspected carcinogen Tannin (tannic acid): suspected carcinogen 	 vegetable sources are usually safe prevent ingestion and inhalation use mask and gloves use extreme caution in handling these chemicals use gloves, goggles, and respirator or mask (3M-8710) when handling these powders



		
MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Fibre Dyeing (Synthetic Dyes)	 irritation of eyes, respiratory system and skin from fine powders bladder cancer from direct dyes liver cancer in animals from other types (Rit and Tintex are mixtures of direct and other dyes) 	 treat all synthetic dyes with great care, using goggles, gloves, and respirator or mask (3M-8710) clean up any spills with large quantities of water; any dye that is not cleaned up will become powder when dry and will remain toxic use fume hood when handling use alternates (food dyes)
Finger Paint	- toxicity of some types	- use only non-toxic types - make your own (see recipes at end of this section)
Fixer (Sodium Thiosulfate)	 may contain toxic chemicals or irritants such as alum, boric acid, or formaldehyde (in addition to sodium thiosulfate) toxic sulfur dioxide released upon decomposition 	- ventilate fixing bath - use caution in handling and mixing fixer - fixer is not as toxic as developer or stop bath
Fur	- anthrax infection possible from working with unprocessed fur	- use processed (tanned) furs
Glass Staining	- highly toxic dyes and solvents - may contain toulene, xylene	- use fume hood and gloves if dyes are solvent based - use safer water-soluble acrylics
Glaze	- dry powders' - toxic oxides (or highly toxic): - antimony oxide - asbestos*** - barium carbonate - berylium, beryllia */*** - bone ash (calcium phosphate) - borax, boric acid	*carcinogen or serious toxin ***very fine particles

		
MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
	- cadmium* - chrome yellow** - chrome oxide* (lead chromate) - cobalt - copper carbonate,* malachite - cryolite, cornish stone* - feldspars: silica (silicosis)*** - fluorspar* - iron chromate* - lead compounds: raw, fritted - lithium carbonate: irritant (powerful mood-altering drug) - manganese carbonate - manganese dioxides: nerve toxin - naples yellow: lead - nepheline synenite - nickel carbonate,* oxide - potash - potassium dichromate* - pumice - soda ash - sodium silicate - talc - asbestos* - uranium oxide** - vermiculite* - zinc yellow** - zircon zircopax*	*carcinogen or serious toxin **no known safe level ***very fine particles
Glue	- toxicity of some glues	 avoid contact adhesives (solvent), rubber cement (solvent), epoxy (hardner, toxic), formaldehyde - resin (resorcinol) use safe, non-toxic white glue or PVA (polyvinyl acetate emulsion)



MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Grout	- caustic burns to eye lining - skin problems for some people - slow healing of open sores or cuts after exposure to grout	- avoid eye contact, use goggles - protect hands by using vinyl or rubber gloves
Gum Arabic (Gum Acacia)	- respiratory allergies when inhaled as in enamelling	- use a respirator or mask (3M-8710) - use a fume hood - use sugar or syrup solution as a binder
Gum Tragacanth	- respiratory allergies/asthma when inhaled as in enamelling	- use respirator or mask when mixing powders - use fume hood - use sugar or syrup solution as a binder
Hemp	dustskin allergytoxic if treated with formaldehyde	- use gloves
Hessian Burlap	dustskin allergytexic if treated with formaldehyde	- gently wash burlap before use if a problem
India Ink	- may contain carbon black contaminated with aromatic hydrocarbons (carcinogen)	 use non-toxic types, such as fountain pen ink if using India ink of unknown quality, do so with mechanical ventilation
Ink ~ Colored	- dyes (use entry under Fibre Dyeing) - solvents - pigments (see entry under Pigments)	 use non-toxic inks avoid skin contact clean up spills thoroughly, using rubber gloves, a sponge and large quantities of water do not clean up with bleach as this can create a more severe problem; many chlorinated chemicals are carcinogenic substitute colored food dyes

MATERIAL/MEDIUM	HAZARD	Precaution/substitute
Jewellery	- fine metal file dust - solder - acid	 keep work area clean by wet cleaning or vacuuming use a fume hood for processes that create fumes; i.e., soldering
Jute	- skin or respiratory allergy enamelling	- it may be necessary to use a dust mask (3M-B710) or wear vinyl or rubber gloves when working with jute
Lead (Glaze, Soldering, Stained Glass)	 toxic at low levels, especially for young children suspected mutagen and teratogen inhalation can result in kidney and liver damage 	 use only lead-free glazes solder only in a fume hood stained glass using lead came and copper foil is not a recommended activity for elementary children, supervision in junior high grades is essential
Leather	toxic chrome salts used for tanning some leatherskin allergypoisoning possible if chewed	- prevent students from chewing leather - do not use with young children
Leather Tooling (Leather Kits)	 toxicity of leather dyes (both dyes and carrier solvents) 	- use only non-toxic dyes such as those that are ethyl-alcohol based - wear gloves - use mechanical ventilation (fume hood)
Lost Wax Casting (Jewellery)	 investment or moulding compounds may contain: silica: silicosis asbestos: asbestosis, lung cancer, intestinal tract cancers and may produce fumes: highly irritating to lungs and eyes 	- use only non-silica investment - beware of asbestos content - burnout should be ventilated



MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Magazines	- preservatives in paper - lead chromate inks present in colors	- prevent students from chewing the paper
Mahogany	- skin irritation	
Metal Fumes	- toxic byproducts when heating lead, copper, solder; welding; firing bisque and glaze kiln	- use mechanical ventilation or fume hood - the odour of fumes in the air is a warning of danger
Methyl Hydrate	 highly flammable highly toxic by skin contact (nerve, liver, kidney damage; blindness; death) 	- use grain (ethyl) alcohol
Mineral Spirits	- eye, nose and throat irritant and central nervous system depressants	- proper ventilation and storage
Modelling Materials (Papier Mache)	- fine dust in commercial product - lead chromate and other inks on paper - preservatives	- use only non-toxic materials
Modelling Materials (Plasticine)	- china clay, oil base, dyes (color), preservatives, silicates, turpentine - ingredients toxic by ingestion - skin problems (some brands)	 use only non-toxic brands it may be necessary to have some children use barrier cream on their hands, but check with parents first have students put hands under plastic bread bags or wear vinyl gloves
Modelling Materials (Self Hardening)	- may contain asbestos	- use only asbestos-free clay - use only non-toxic clay
Newspaper	 skin allergies for some people from oil in ink may be treated with fungicide (irritant) lead chromate (carcinogen) in some colored inks 	- use only black and white sections for papier mache.

C.2 Hazardous Art Materials (cont...)

		
MATERIAL/MEDIUM	D?ASAH	PRECAUTION/SUBSTITUTE
Paint (Tempera Disk or Block)	- may contain toxic pigments or dyes - may contain irritants such as binders (gum arabic and tragacanth) - may contain preservatives	- tempera disk or block is the safest form of tempera for classroom use - clean up spills promptly (e.g., water dish) with a wet sponge or wet mop - do not allow students to paint their skin - use products labelled non-toxic
Paint (Tempera - Liquid)	- may contain toxic pigments or dyes - may contain irritants such as binders (gum arabic and tragacanth) - may contain preservatives	- clean up spills promptly with a wet sponge or wet mop - do not allow students to paint their skin - use products labelled non-toxic
Paint (Tempera - Powder)	- may contain toxic pigments or dyes - inhalation of powder dust	- never let young children use powdered tempera; use not recommended in public schools unless pre-mixed by teacher - use other forms of tempera - do not allow students to paint their skin - use products labelled non-toxic
Paper	- fungicides, such as mercury compounds, often used to treat paper	- prevent students from chewing and eating paper
Paper (Construction, Tissue, Crepe)	 fungicides often used to treat paper azo or benzedine in direct dyes for color (benzidine is known to cause bladder cancer) 	- insist on non-toxic paper - moderately safe when dry, avoid wetting - crepe paper will contain flame proofing chemicals (borax compounds, TRISS)
Paste	- may contain formaldehyde or mercury fungicide	- use non-toxic paste
Pastels	 toxic dust of fine pigments in chalk pastels same pigments as used in paints (see entry under Pigments) 	- don't use with young children - use only oil pastels - have children be careful to keep hands clean - wash with soap and water



MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Photography	- a number of health problems from photo chemicals	- see notes at beginning of this section
Pigments	- poisonous pigments: - Burnt Umber (manganese) - Cadmium Red	- pigments are common to most art techniques requiring color - many pigments still being used in the classroom are poisonous; all are poisonous by ingestion and inhalation



C.2 Hazardous Art Materials (cont...)

MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
	- Raw Umber: toxicity from iron and manganese - Vermillion: mercury poisoning from mercury sulfide or cinnabar	
Plaster of Paris	 irritation of eyes and respiratory system from dust will dry skin 	- Plaster of Paris is non-toxic, but the dust can be irritating; use care when handling the powder and wear dust mask (3M-8710) or respirator
Plastics	- fumes from heating: - formaldehyde - carbon monoxide - hydrogen cyanide (amino resins) - phenol - styrene gas (styrofoam)	- normal handling is reasonably safe - use hot wire cutters in a fume hood
Potters Wheel	- physical hazard if too large for the student	
Pottery Kilns	- produce carbon monoxide, sulphur monoxide, sulphur dioxide, sulphuric acid, pyrolized carbons, metal fumes from metallic oxides present, such as iron, chrome, cobalt, manganese and vandium	 kilns should be installed and used only under fume hoods with mechanical extraction sufficient to remove emissions (capture velocity of .25 m/s) kilns preferably should be in a separate room and not in the classroom
Printing Ink	- toxicity of solvent (oil)-based inks	- use solvent-based inks only in a fume hood - use water-based inks - use mechanical ventilation (fume hood)

MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Printmaking (Screen- printing)		
GS51 Adhering Fluid	- highly flammable - central nervous system toxin: depression - irritant to eyes, nose and respiratory tract	- use mechanical ventilation (fume hood)
Hide Glue (Lepages Liquid Strength)	- preservatives: skin allergy	
Silkscreen Inks	- contain many different aromatic hydrocarbons (toxic)	- use only on a cross-drafted table, with a capture velocity of .5 m/s - use alternate water-based, water-soluble silk screen inks such as Speedball Non-Toxic Inks
Super Blox	- methlene chloride - central nervous system depressant producing delusions	- there are no apparent problems with Speedball Photo Emulsion or Ulano Blockout which can be used instead
P.V.A. (Polyvinyl Acetate) (Water Emulsion)	- eye irritant (ammonia) - may contain irritant preservative, formaldehyde	- use ventilation - avoid skin contact, use gloves
Sandpaper	- sanding dust	- use approved dust mask (3M-8710) - stop frequently and clean up with wet sponge
Shellac	- volatile solvents - may contain methyl hydrate	- use mechanical ventilation (fume hood)
Shingles	- cedar shingles and shakes: toxic sawdust - asphalt shingles: tar aromatic Lidrocarbons toxic	- wear a dust mask (3M-8710) when working

MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Shoe Polish	- may contain toxic solvents	- use sparingly - use mechanical ventilation
Silicone Mould Release (Candle-making)	- toxic by inhalation	- use mechanical ventilation (fume hood)
Silver Solder	- cadmium fumes (known carcinogen) - preservatives: skin allergy	- use cadmium-free solders - use a fume hood
Soapstone (Soft Stones, Serpentine)	- free silica when sanding or cutting - asbestos	 use goggles use soft stone such as limestone, pipestone which are asbestos-free if using soapstone, use masks (3M-8710), goggles, and gloves clean up often during project wet mop or vacuum afterwards
Soldering	 lead fumes: lead poisoning flux: zinc chloride, corrosive to the skin, eyes and respiratory tract 	- use mechanical ventilation - use a fume hood - local exhaust system
Solvents (Toluene and Xylene)	 lung irritants, may cause (in high concentrations) damage to the central nervous system 	- use mechanical ventilation
Stained Glass	 lead came lead solder zinc chloride flux lead known poison burning of skin, eyes, and respiratory system from zinc chloride fumes 	- cellophane and cardboard alternate activities or do glass staining with acrylics - advise students of proper conduct; maintain supervision - ventilation essential when soldering; local exhaust system

		
MATERIAL/MEDIUM	HAZARD	PRECAUTION/SUBSTITUTE
Stop Bath (Acetic Acid)	- highly toxic by inhalation, skin contact and ingestion	- do a careful clean-up afterwards - the use of goggles and gloves is mandatory - use mechanical ventilation
Styrofoam 	- toxic gases released when heating (not wire cutters, blowtorch, matches), especially styrene gas: known narcotic, respiratory and eye irritant, possible nerve and liver damage	- use a knife to cut or if using hot wire cutter, do so only in a fume hood
Talc	- in white clays and low firing clay, may be contaminated with asbestos fibres	
Tarpaper	- toxic aromatic hydrocarbons	- use non-tar building felt
Tissue Paper	- benzedene in some colored varieties (bladder cancer)	- use only non-toxic-type papers
Turpentine	- highly flammable; skin irritant; eye, nose and throat irritant; central nervous system depressant	1
·Varnish	- volatile solvents	- use mechanical ventilation (fume hood)
Vinyl Chloride	- may cause cancer of the liver	- used in making plastic articles; unknown number of exposures may cause problems
Wallpaper Paste	- may contain formaldehyde or mercury fungicide	- prevent children from eating it - use non-toxic paste - make up your own (see recipe at end of this section) include recipe





MATERIAL/MEDIUM	HAZARD	precaution/substitute
Wax	 toxicity of some waxes release of acrolein fumes and other irritants from overheating 	- use food-grade paraffin waxes - use a double boiler to control heating
Wood	- boxwood, cedar, rosewood, teak: respiratory, eye, and skin problems, skin allergies	- use safer woods such as spruce or pine
Wool	- possible anthrax infection when working with raw wool	 be certain of the source; get supplies only from a reliable dealer use fumagated fleece use a dust mask (3M-8710) if wool fibres cause irritation
Yarns	- possibility of anthrax in wool yarns, hand spun	- be certain of source of raw fleece; get supplies only from a reliable dealer
Zonolite, Vermiculite	- asbestos contaminated (human carcinogen)	- don't use in the classroom; substitute other materials such as sawdust or coffee grounds

HAZARDOUS ART MATERIALS AND OCCUPATIONAL SAFETY (cont...)

C.3 Glossary (from Design Criteria for the Control of Health Hazards in the Schools)

Allergen: a substance causing an abnormal response in a hypersensitive person.

Capture Velocity: air velocity at any point in front of the hood necessary to capture and remove air contaminants.

Carcinogen: any substance or agent that causes cancer.

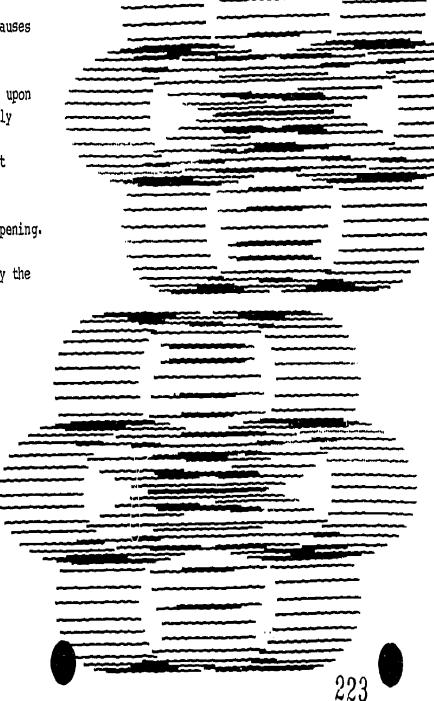
Chemical Sensitizer: a substance capable, upon contact, of inducing increasingly adverse effects upon a given individual; such effects are not limited by the area of contact.

Face Velocity: air velocity at the hood opening.

Fumes: small solid particles created by the

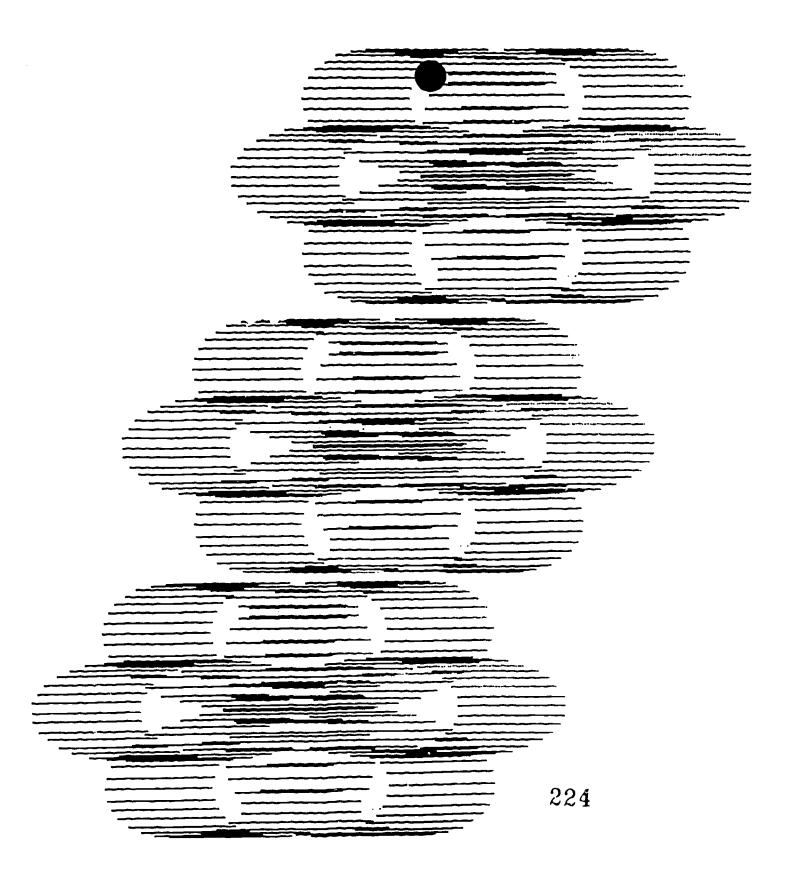
condensation of vapors.

Vapor: gaseous form of a substance.





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Technographic Media

The nature of learning in the arts makes an integral connection with technology, since no art exists until it is made and 'making' is a technological process. Many of the concepts contained in this new art program can be taught and practised through the use of computers and other technographic media, such as cameras, overhead projectors, copiers, the laserdisc image bank, movie cameras, videotape and slides.

Computer-assisted learning is an effective way to deal with image-making that uses moving points, lines, changing points of view, figure rotation, proportion, and magnification. Wherever variables occur in images -- size, tone, color gradations, marks -- computer graphics can provide a new and challenging method of learning. A variety of computer graphics programs are now available. Review the program for content focus (e.g., drawing? shape? animation?) compatibility with school equipment and cost.

Computer-assisted instruction is also a viable means of conveying information to students. The following art concepts are readily convertible to self-instructional methods: color relationships, perspective drawing, motion sequences, 3-D modelling, special graphic effects, overlapping, image rotation, enlarging, reducing, film animation, and poster layout can all be self-taught through microcomputers.

The laserdisc 'Sightlines' can be combined with a teacher designed computer program to provide individual or small group learning sessions. The programs could be structured to accompany curricular themes being studied. As well, the storage and retrieval of much art classroom information can be handled with a

computer. Students can maintain records of work-inprogress, reports and anecdotal records of aesthetic
criticisms. Information about available and appropriate media, supplies and processes can be managed by
computer programs. The laserdisc image bank is
catalogued for retrieval by computer, and students can
select images for their own individual viewing and to
plan presentations in this way.

A major advantage of the use of modern technographic media is the immediacy of feedback of imagery that allows testing of ideas, manipulation of compositions and the storage of many visual ideas. The imagery that results from the use of these valuable new tools must still be initially created by the student.

Technographic Media: Possibilities

- Take advantage of visual art implications of any available technological devices and explore the potential of emerging technologies.
 - *simple camera used for specific purposes such as close-ups, medium shots, long shots of same subject matter; various viewpoints, action, composition
 - *overhead projector for experimenting and composing with shape, line, color including using fluid media (water, oil, food coloring), colored acetates

cont....



TECHNOGRAPHIC MEDIA (cont...)

- *computer and computer software package and input devices such as light pen, Koala pad, mouse, tablets, H-Plot, and any other advancements in this area to explore design, compose, animate and program, to make geometric shapes and designs
- *copy devices or Xerox to make compositions that involve paste-ups, distortions, reductions, block-outs
- *laserdisc visuals interfaced with the computer for study and motivation purposes.
- *8mm movie camera for documentation, sequencing, capturing movement, animation
- *lighting sources such as spotlights, flashlights, overhead projector light, strobe lights, and black lights for experimentation.
- *video camera to compose
- *slides for recording and sharing; handmade for understanding composition and pattern
- *emerging new technologies as available and applicable.
- Employ technological media techniques, practices and capabilities to promote art understandings and create designs and compositions.
 - *pinhole camera construction
 - *developing film

- *drawing directly on film or scratching for animation
- *selecting and synchronizing music and/or sound effects for a set of slides, short film, videotape
- *making or capturing visuals that carry a story and/or accompany a script
- *handmade slides
- *photographing work-in-progress, finished works to keep a record of skill development
- *adjustable framing devices to select and cut out scenes from a larger picture and to sequence
- *photograms
- *printers to record computer compositions (or direct photography off the screen)
- *animation techniques available through computer software packages
- *simple film animation with jointed figures, moveable paper shapes or plastic modelling clay models
- *lighting techniques for highlighting and creating an effect or mood

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