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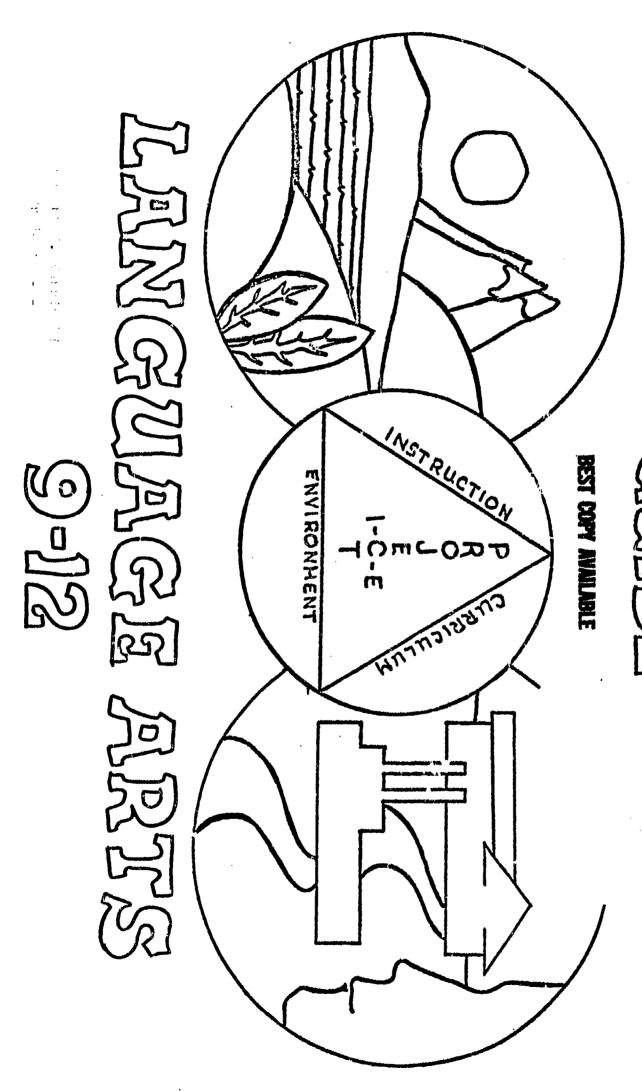
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ABSTRACT

This language arts guide, for use in grades 9-12, is one of a series of guides, K-12, that were developed '" teachers to help introduce environmental education into the total c rriculum. The quides are supplementary in design, containing a series of episodes (minilessons) that relate various English skills (reading, writing, listening, and speaking) to environmental concepts. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Although the same concepts are used throughout the K-12 program, emphasis is placed on different aspects of each concept at different grade levels or in different subject areas. This guide focuses on aspects such as debate, interviews, and analysis. The 12 concepts are covered in one of the episodes contained in the guide. Further, each episode offers subject area integration, subject area activities, interdisciplinary activities, cognitive and affective behavioral objectives, and suggests references and resource materials useful to teachers and students. (Author/TK)



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PROJECT I - C - E (Instruction-Curriculum-Environment) 1927 Main Street Green Bay, Wisconsin 54301 (414) 468-7464

PROJECT STAFF

Robert Warpinski - Director

Robert Kellner Terrence Hess - Assistant Directors

George Howlett, Jr. - E. E. Specialist

Nancy Timm Lynn Kuehn - Secretaries

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Serving All Schools in Cooperative Educational Service Agencies 3-8-9 Wisconsin Area "B" Regional Project

Ludwig Petersen Coordinator, C.E.S.A. #3

Kenneth Poppy Coordinator, C.E.S.A. #8

John F. David Coordinator, C.E.S.A. #9 Project Administrator

In 1969, the First Environmental Quality Education Act was proposed in the United States Congress. At the time of the introduction of that legislation, I stated:

"There is a dire need to improve the understanding by Americans of the ominous deterioration of the Nation's environment and the increasing threat of irreversible ecological catastrophe. We must all become stewards for the preservation of life on our resourcedeficient planet."

In the three years since the Environmental Education Act was passed by the Congress, much has happened in the United States to reinforce the great need for effective environmental education for the Nation's young people. The intensive concern over adequate energy resources, the continuing degradation of our air and water, and the discussion over the economic costs of the war against pollution have all brought the question of the environmental quality of this nation to a concern not merely of aesthetics but of the survival of the human race.

The intense interest by the public in the quality of our lives

as affected by the environment clearly indicates that we cannot just use incentives and prescriptions to industry and other sources of pollution. That is necessary, but not sufficient." The race between education and catastrophe can be won by education if we marshall our resources in a systematic manner and squarely confront the long-term approach to saving our environment through the process of education.

As the incessant conqueror of nature, we must reexamine our place and role. Our world is no longer an endless frontier. We constantly are feeling the backlash from many of our ill-conceived efforts to achieve progress.

Rachel Carson's theme of
"reverence for life" is becoming
less mystical and of more substance as our eyes are opened to
much of the havoc we have wrought
under the guise of progress. A
strong commitment to an allembracing program of environmental
education will help us to find
that new working definition of
progress that is a pre-requisite
to the continued presence of life
on this planet.

· Senator Gaylord Nelson

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LANGUAGE ARTS PREFACE

ecological issues with language arts instruction. Young people have a completely absorbing interest in the world of nature around them. One of the reasons for this handbook is to attempt to link natural in which young people live needs to be made relevant to their school studies. Youth need ecology and ecology needs youth. The natural, physical world

capable functioning member of society. is to relate them directly to the various English skills--reading, writing, the twelve environmental concepts are scientifically oriented, the attempt here listening, speaking--all of which have as their pיירpcse making the student a more This environmental handbook is written for high school students. Although

his ecosystem in a coherent, unified, directed manner. In short, the importance of the parts' relationship to the whole is vital both in writing--an English paper itself, are tied closely with an ecological concept. For example, the coherence, unity, and development of the topic sentence or thesis created in writing can easily be seen to be analogous to the importance of man's fitting into working with the paragraph, through formulating the essay, to writing the research maner itself, are tied closely with an ecological concept. For example, the writing. As is the case with each skill, the skills of learning to write, from An example of the specific skills presented in this handbook is that of

physical world has a direct bearing on individual man's perception of beauty in literature. The skills of English, those uses of language which help us toward becoming more fully human, must be brought to bear on the creation of an is the purpose of this handbook. ecologically sound, and therefore aesthetically pleasing, world. This, then, or a fictional work, have nothing to do with that "outside" world in which men world. As true humanists, English teachers must be ready to help man see skill--and in the study of ecosystems--a survival skill.

More than ever before, man's capacity for survival is threatened by his for example, that the beauty of fine verse, the finely tuned logic of an essay spiritually -- for beneficial ecological growth. English teachers must not pretend, himself as one entity, a being with great capacities -- mentally, physically, inability to recognize the ecological destruction which he wreaks on his physical live. We must help ourselves and others to see that beauty or ugliness of our

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Robert Haen, Luxemburg-Casco

Ken Couillard, Hortonville Ronald Conradt, Shiocton Willard Collins, Crivitz Bill Cole, Gillett Merle Colburn, Algoma Bob Church, Little Chute Clifford Christensen, Winneconne Joan Charnetski, Sevastopol Kathryn Colburn, Algoma Lee Clasen, Luxemburg-Casco Gailen Braun, Lena William Bohne, Kimberly Barbara Jean Bobrowitz, Green Bay Merlyn Blonde, Shawano Carmella Blocha, Green Bay Peter Biolo, W. DePere Laura Berken, Oconto Falls Lousene Beater, Gillett Marie Below, Clintonville David Bell, Meenah William Behring, Lourdes, Oshkosh Robert Becker, Fox Valley Luth., Appl. William Baggs, Shiocton Dr. Harold Baeten, St. Norbert, DePere Angela Anthony, Gibraltar Lillian Berges, Seymour Bennie Beamer, Coleman David Bartz, Sturgeon Bay Anthony Balistreri, Howard-Suamico Walter Anderson, Wausaukee Peggy Anderson, Green Bay John Anderson, Peshtigo Lowell Baltz, Weyauwega James Anderson, Green Bay Eugene Anderson, Peshtigo Mary Anders, Winneconne Joan Alioto, Denmark D. C. Aderhold, Bonduel

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Robert J. Haglund, Green Bay

Bernadyne King, Neenah James Krenek, Coleman Robert Lee, Neenah Mae Rose LaPointe, St. John High, L. Chute Steven P. Lapacz, Resurrection, G.B. Sr. Mary Alyce Lach, Cathedral, G.B. Ervin Kunesh, Marinette Jim Krueger, Winneconne Fritz Krueger, Oshkosh Fred Krueger, Oshkosh Jack Kcivisto, Green Bay Lynn Koehn, Pulaski Frank Koehn, Resurrection, G.B. Douglas Koch, Cath. Cent., Marinette Everett Klinzing, New London Sr. Anna Maar, St. Philips, G. B. Roy Lukes, Gibraltar Dennis Lord, Little Wolf John Little, Winneconne Edward Linn, Applecon Harold Lindhorst, St. Martin Luth., Clint. Phillip Lewicki, Gillett Don Leibelt, Green Bay Kathleen LeBreck, Oconto Rosemarie Lauer, Hortonville Thomas LaFountain, Appleton Doris Malcheski, Howard-Suamico James Maki, Sturgeon Eay Judy Luedike, St. Rose, Clintonville Elien Lotz, W. DePere Frisciila Mereness, Wrightstown Mary Mathis: Denmark Joyce Mateju, Algoma Jean Lucier, Ashwaubenon Robert Meyer, Neenah Rick Menard: Little Chute Margaret McMahon, Little Chute Kathleen McMahon, Green Bay Judy McGovm. Green Bay Margaret McCambridge, White Lake Donald Marsh, Bonduel

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Ginger Stuvetraa, Oshkosh Bill Stillion, Shawano Doris Stehr, Mt. Calvary Luth., Kimberly Wayne Splitgerber, Green Bay Bruce Sonnenberg, Neenah Lee Smoll, Little Chute Mary Smith, Green Bay Peter Skroch, Oconto Falis Calvin Siegrist, Howard-Suamico Carolyn Stoehr, New London Janet Serrahn, Sevastopol Ailan Schuh, Pulaski Ron Schreier, Omro Larry Schneider, DePere Greg Schmitt, Cathedral, G.B Arthur Schelk, Süring Richard Switzer, Little Chute Beverly Splitgerber, Green Boy M ry Wadzinski, Howard-Suamico Tim Van Susteren, Holy Name, Appleton John Torgerson, Kewaunee Jackie Thiry, Denmark Nancy Tebo, Necnah Judy Sweedy, Denmark Cathy Warnack, White Lake Ruth Ward, Crivitz Marion Wagner, Gillett Jack Twet, Freedom Carol Trimberger, Kewaunee Clarence Trentlage, Freedom David Soltesz, Crivi'z Peggy Wolfgram, Pulaski Warren Wolf, Kimberly Ralph Wohlt, New London James Wizz, DePerc Dallas Werner, Kaukauna Susan Weller, Green Bay Tom Weyers, Cathedral, Green Bay Lila Wertsch, St. Margaret Mary, Neenah Ruth Windmuller, Green Bay

PROJECT I-C-E TWELVE MAJOR ENVIRONMENTAL CONCEPTS

- 1. The sun is the basic source of energy on earth. Trans-formation of sun energy to other energy forms (often begun by plant photosynthesis) provides food, fuel and power for life systems and machines.
- 2. All living organisms interact among themselves and their environment, forming an intricate unit called an ecosystem.
- 3. Environmental factors are limiting on the numbers of organisms living within their influence. Thus, each ecosystem has a carrying capacity.
- An adequate supply of clean water is essential to life.
- 5. An adequate supply of clean air is essential for life.
- 6. The distribution of natural resources and the interaction of physical environmental factors greatly affect the quality of life.

- transportation, economic conditions, population growth and increased leisure time influence changes in land use and population densities.
- 8. Cultural, economic, social, and political factors determine man's values and attitudes toward his environment.
- 9. Man has the ability to manage, manipulate and change his environment.
- 10. Short-term economic gains may produce long-term environmental losses.
- ll. Individual acts, duplicated or compounded, produce sig-nificant environmental alterations over time.
- 12. Each person must exercise stewardship of the earth for the benefit of mankind.

concepts. A "Concept Rationale" booklet and a slide/tape program "Man Needs His Environment" are available from the I-C-E RMC to more fully explain these

DIRECTIONS FOR USING THIS GUIDE

This guide contains a series of episodes (mini-lesson plans), each containing a number of suggested in and out of class learning activities. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Further, each episode offers subject area integration, multi-cable, both cognitive and affective behavioral objectives and suggested reference and resource materials useful to the teacher and students.

- in design--it is not a complete course of study, nor is its arrangement sequential. You can teach environmentally within the context of your course of study or units by integrating the many ideas and activities suggested.
- 2. The suggested learning activities are departures from regular text or curriculum programs, while providing for skill development.

- objectives, activities and resources can conveniently be included in your unit.
- 4. All episodes can be adapted, modified, or expanded thereby providing great flexibility for any teaching situation.
- 5. While each grade level or subject area has its own topic or unit emphasis, inter-grade coordination or subject area articulation to avoid duplication and overlap is highly recommended for any school or district seeking effective implementation.

This total K-12 environmental education series is the product of 235 classroom teachers from Northeastern Wisconsin. They created, used, revised and edited these guides over a period of four years. To this first step in the 1,000 mile journey of human survival, we invite you to take the second step--by using this guide and by adding your own inspirations along the way.

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Critical Reading	Short Story - Organization Short Story - Language	Listening and Reading	Role-Playing (9-12)	Problem Solving Problem Solving	Propaganda and Advertising	Group Discussion	Journalistis Skills - The Interview Journalistic Skills - The News Story and Feature Journalistic Skills - Editorial	Poetry -(Interpretative Reading) Poetry - Original Poetry - Analysis	Oral Communication - Speech Oral Communication - Drama Oral Communication - Debate	Writing - Deductive Paragraph Writing Expository Essay Writing and Research-Research paper	Imaginative Expression	Topic
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E. S. E. A. Title III - PROJECT I-C-E F9-70-0135 Skills Used: NOITATION CONCEPT NO. Environmental: Affective: Cognitive: BEHAVIORAL OBJECTIVES Pesse. and making comments or ideas by asking questions sources of life through Respond to his ciassmates' imaginative expression. Illustrate his idea of the presentations of his Oral expression Writing skills Visual interpretation What are the sources of life? 1-Energy the BEST COPY AVAILABLE Þ In-Class: 10. 9 8 יי לט יעי of any kind of seed to lass. After indentificad may be substituted. wider discussion of the class. react to this discussion could then be asked to sources of i fe. Any of tion of the seeds, this students to bring a sample imaginative expression. through some form o "Outside or Community" the other ideas under The teacher could Mobile Original Story: tell-Collage Visual Creative dramatic Slide set Movie Children's book ing or reading pseq Board Poster, Bulletin Picture book STUDENT-CENTERED LEARNING ACTIVITIES or sound mon-TOPIC/UNIT SUBJECT Integrated with: (continuec.) instruct They **. t**d D Language Arts Imaginative Expression Outside or Community: Th examples to stimulate dissources of life and record students can observe suitable arc. in which the a group of pictures or The local child: en's expression. cus ion and/or imaginative A "nature walk" to any theme and show these to slides that illustrate the of sources of life. number of children's books the class as a stimulus that illustrate the theme tc selec librarian could be asked eacher could compile ... d present a (9-12)

Publications:

Kodak's "How To Make A Movie" Periodical) Gore Vidal The Lorax Dr. Seuss ifteen One-Act Plays, Media and Methods (Monthly

ESEA Energy and Power, Environteam, ICE-RMC 110th Rand McNally & Co., 1969. Energy Sources: Thier, Herbert

1972. ICE-RMC-180EN. Audio-Visual:

Project POE-Mark Onesty; Florida,

Films: Ecology and Man Series, Filmstrip: "Junk Dump" ICE-RMC-310 (20 min.) "One Day at Teton Marsh" ICE RMC "Men at Bay" "Energy Relationships" 200 (2 parts 48 min.) (film 250) - ICE-RMC-250 (25 min Set 1: Num-

Community:

ICE-RMC-FS: St. 9.

Area Suitable for Neture Walk Children's Library

CONTINUED OR ADDED LEARNING ACTIVITIES

IN-CLASS (continued)

B A "share day" can be planned for students to contribute their projects to other classes. (See attached pages 11, 12, 13, 14.



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Project I-C-E Serving CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin WHAT'S LANGUAGE ARTS?

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WHAT'S LANGUAGE ARTS? THE GROWTH OF SPEAKING, LISTENING, READING, AND WRITING SKILLS TO COMMUNICATE IDEAS AND FEELINGS.

The outdoor environment provides an excellent resource for the stimulation of language arts activities. The outdoor laboratory stimulates a creative response which can be either real or imaginative.

A great amount of understanding about one's environment can be achieved through the communication skills. In order to communicate how one perceives the environment one must use all his senses to observe his environment. This will help the individual to learn, question, understand, appreciate, and enjoy the out-of-doors. New words are learned and used when communicating about the out-of-Doors.

Some of the most productive language arts activities evolving from outdoor experiences are creative writing and oral expression. Vocabulary building will be automatic with each new experience. Effective verbal expression must grow out of an experience.

Descriptive writing may be a starting point for many pupils. Subjects such as "Now that you have visited the watershed project, what are your feelings about the conservation of water change?" Or, "What did you like most about your or bedoor school experience?" are possible as catalysts for descriptive writing.

The sharing of experiences and the dramatization of experiences are possibilities for the translation and reinforcing of basic conceptual schemes.

Suggested Language Arts Activities

- Note-taking (field notes)
- 2. Letter writing
- 3. Creative writing, such as poems or stories
- 4. Storytelling
- 5. Reading stories and poems
- 6. Writing diaries or logs, newspapers, songs, or menus

- 7. Use of outdoor school library for reference reading
- 8. Labeling and identifying field specimens
- 9. Dramatizations
- 10. Role playing
- 11. Making charts, posters, and bulletin board displays



"READING MARGINE THE FULL MAN

"CONFERENCE MAKETH THE READY MAN, AND WRITING MAKETH THE EXACT MAN."
FRANCIS BACCN

 \neg

To feel the pains and pleasures of a reading, speaking, or writing task take the real route. Read, speak, and write with your students. Maybe you forgot how hard it is to "be ready" or "exact." You forge new communicative roads,—especially be experiencing the speaking and writing process with the students and then "talking out" what they're going through, what you're going through. As a teacher, speaker, writer can you satisfy yourself by:

- 1. Describing a natural object (leaf, bark, stone, etc.) in no more than fifty words. Can you make us see, touch, smell, or feel it Can you appeal to our senses? Will you give students a copy of your description?
- 2. Explaining in more than five sentences a natural cause--effect pattern you saw or sensed at Trout Creek or during some outdoor experience.
- 3. Tape-recording natural sounds. Then describe (speaking, writing them to one who hasn't heard them.

Like to try it? If taping is bothersome, then rely on memory.

- 4. Contrasting (orally, visually, or in writing) one natural object, animal, scene, or one part of the outdoor area with another.
- 5. Selecting a pattern, one natural object, and a specific audience.
 - a. Choose an organizational pattern (top to bottom, left to right, diagonal, circular, high to low, etc.) befitting your selected natural object.
 - b. Use a mode of expression you feel comfortable with--writing, speaking, visual. . .
 - c. Direct your pattern and mode to a specific audience. Whenever we communicate, we are choosing someone special. Let's appeal to "special audiences." How could we deny our ideas and feelings directed towards Fred, Pete, and Mary? Do we ever really write to "someone" or "anyone"? How could we? They're nobody. But, Fred lives, my younger brother listens to me, and you're someone very unique reading this right now. I belive it; so do you; so should students—when they write or talk.
- 6. Share your most enjoyable, most enlightening, or exciting outdoor experience. We're your audience. You must let us enjoy your experiences, too. We want your new ideas, your excitement. Share that special area, color, plant, footpath, or feeling--whatever you choose to write, speak, or show us non-verbally. Keep in mind the feeling you want us to have as a result of your words or image.
- 7. Choosing your own quotation from memory, reading, or some source.
 Relate it (writing, speaking, illustrating) to nature or a natural object, animal, season, or phenomenon. Let the quotation skyrocket your strong feelings; let your words shape your experiences.



"AND THIS OUR LIFE. .. PINDS TONGUES IN TREES, BOOKS IN RUNNING BEOOKS, SERMERS IN COMER, AND GOOD IN EVERYTHING." SHAKESPEARE

USE THE SELS as stimuli for creative writing. Let students have their own "quiet time" to see, hear, smell, taste, touch. Then the resperiences springboard into description, poems, narration, tersonification, "reaction" writing or some openended appreach.

2. SPOT IDEAS OR THEMES IN NATURE. Then talk, write, or illustrate them. Here are some themes:

Patterns Change Interaction Adaptation Man's Actions What, where, when, how, and why do these ideas or themes occur in nature?

These themes occur daily in Trout Creek and Energy Sources in all of nature. In fact, these themes occur right in school, playground, or at home. students discuss, write, or illustrate one or more themes at Trout Creek and elsewhere

On your walk today, what changes, interdependence, interaction, etc. did you notice? Have you observed such themes elsewhere? Can you describe them; write comparisons/contrasts.

"TONGUES IN TREES"...Does our environment -- both natural and man-3. made--communicate to us?

What are the signs, symbols, form, features, or sensual messages -- of growth and decay?

Speak, write, or illustrate "nature's talk." Later, explore "human non-versal signs" of varying emotions, ideas, or social modes.

Ask yourself and students: How do people tell us things--without words? Students can respond to this. The speaking and writing possibilities are many. Observe and sense nature's signs. is the stimulation, the kickoff experience for talking, writing, and illustrating. Many experts feel that how we say something along with its accompanying actions has more impact than the actual message content.

CREATE A FEFLING, POEM, STORY, OR .. . about an outdoor experience, 4. favorite place, tree, plant, or animal.

This one is open-ended. You can add these guidelines if you like: a. Please illustrate your written or spoken creation with drawings, collage, pictures, etc.

- Choose a specific audience. After all, we do communicate with b. special people and groups. 4th graders? 1st graders? younger brothern or sister? other teachers?
- ESCAPE AND BE A MATURAL OBJECT OR CREATURE. Ignite imagination and believe you're a winter animal or favorite natural object. 5. Ground rule is the first person and use hearty details. Tell the-whiten or spoken. Where you live, why you live there, and how you he p other animals, plants, or man. Why wait? Escape:



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harrison County High Sch.

Cynthiana, Kentucky

EXERCISE #5

Title of Lesson: Using Our Senses

Purpose: To give students the experience of writing creatively

about what they observe through their senses.

Behavioral Objectives: At the end of this lesson, 75% of the students will be able to:

1) Write a 100-word paragraph describing 5 things they have seen, heard, smelled or felt during a 30-minute period in an outdoor setting.

2) Point out in their paragraph 5 words that help the reader understand exactly the experience described in the paragraph.

Materials Needed:

Grammar book section dealing with writing descriptive paragraph and using sensory language.

Activities:

1) Discuss the importance of using words which are specific in description such as colors, sizes, shapes, textures.

2) Discuss the use of comparisons and contrasts in describing things that are unfamiliar to the reader such as "dandelions sprinkled across the field like yellow polka dots or green velvet."

3) Take a walk and take notes on things heard, seen, smelled or felt while out of-doors.

4) Read paragraphs aloud to show similarilies among people's observations and differences in their descriptions of what they saw.

5) Re-write paragraph which student considers his most successful.

Evaluation:

Grade student's paragraph to determine whether the student recorded 5 impressions from his experience outside and used 5 exact words to describe his experience.



CONCEPT NO. 2-Ecosystem SUBJECT Language ORIENTATION Is man an island? TOPIC/UNIT Writing Cognitive: TOPIC/UNIT Writing Cognitive: TOPIC/UNIT Writing Describe the relationship between coherence, unity, and corder in paragraph writing and the coherence, unity and corder of the ecosystem. Cognitive: Topic sentence, unity and corder of the ecosystem. Explain why man must be considered a part of the ecosystem. Support a topic sentence is in a constant state of flux. Affective: Support a topic sentence is in a constant state of paragraph development. A coept the fast that nature whether man is present or not. Earn to fit into, not try to conguer, his environment. Skills Used: The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" and the ecosystem topic (see "Outside or Community" and and develop that dopic sentence is in a constant strice of flux. Skills Used: The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" and and develop that dopic sentence is in a constant strice is in a constant state of flux. Skills Used: The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" and part of a vast and include it is in a constant strice is in a constant state of flux. Skills Used: The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" and part of a vast and include it is in a constant state of flux. Skills Used: The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" and and the copy statistics, details, examples or "Outside or Community" and and the copy statistics, details, examples or "Outside or Community" and the copy statistics, details or examples or "Outside or Community" and the copy statistics, details or constant statistics.	Environmental:	Integrated with:	
BEHAVIORAL OBJECTIVES Cognitive: Describe the relationship between coherence, unity, and order in paragraph writing and the coherence, unity and order of the ecosystem. Explain why man must be considered a part of the ecosystem rather than an entity in himself. Affective: Support a topic sentence through the deductive method of paragraph development. Accept the fast that nature is constently changing, whether man is present or not. Skills Used: Nature is in a constant state of flux. 2. Although considered a superior species, man is nevertheless only part of a vast and in order to insure his survival, man must survival, man must environment. Skills Used: Describe the relationship of topic sentences and develop the tacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" and of the configurations senten. Seeing parallels STUDENT—CENTERED L InClass:	NO.		Language Arts
Cognitive: Describe the relationship between coherence, unity, and corder in paragraph writing and the coherence, unity and or topic sentences and the coherence, unity and or topic sentences and the coherence, unity and or reasons from his own experience. Explain why man must be considered a part of the ecosystem. Explain why man must be considered a part of the ecosystem rather than an entity in himself. Affective: Affective: Support a topic sentence through the deductive method of paragraph development. Accept the fast that nature is nevertheless only tricate ecosystem. Accept the fast that nature is nevertheless only tricate ecosystem. Accept the fast that nature is nevertheless only tricate ecosystem. Accept the fast that nature learn to fa vast and it ricate ecosystem. Accept the ecosystem. Skills Used: B. The teacher offers a cho of topic sentences and of topic sentence is in a const tricate of superior species, may survival, man must be nownity. B. The teacher offers a cho of topic sentences and or reasons from his own experience. State of flux. 2. Although considered superior species, may survival, man must be nownity. B. The teacher offers a cho of topic sentence is in a const tricate of superior species, may survival, man must be nownity. B. The teacher of fux. B. The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" Activities). Students and it is supported that idea will develop that idea will devel	Is man an isl	TOPIC/UNIT	Writing -
Describe the relationship between coherence, unity, and order in paragraph writing and the coherence, unity and order of the ecosystem. Explain why man must be considered a part of the ecosystem rather than an entity in himself. Affective: Affective: Affective: Support a topic sentence through the deductive method of paragraph development. Accept the fast that nature is constently changing, whether man is present or not. Skills Used: Describe the relationship of topic sentences and of topic sentence. Suggested topic sentence superience. Suggested topic sentence and of topic sentence superience. Suggested topic sentence superior species, me const tricate ecosystem. Survival, man must try to conquer, his environment. B. The teacher provides a stimulus for writing on the ecosystem topic (sentence). Skills Used: Superior is in a const tricate cosystem. Survival, man must be survival, man for the ecosystem topic (sentence). Scill Heach superior species, me const environment. Survival provides	VIORAL OBJECTIV	-CENTERED	NING
Describe the relationship between coherence, unity, and of topic sentences and order in paragraph writing and the coherence, unity and order of the ecosystem. Explain why man must be considered a part of the ecosystem rather than an entity in himself. Affective: Affective: Affective: Accept the fast that nature is constantly changing, whether man is present or not. Accept the fast that nature is nevertheless only a part of a vast and introder to insure his survival, man must try to conquer, his environment. Skills Used: B. The teacher offers a choice dasks the students to make the coherence streamless own experience. Suggested topic sentences: Suggested to	Cognitive:		Outside
order in paragraph writing and the coherence, unity and or reasons from his own experience. Explain why man must be considered a part of the scosystem rather than an entity in himself. Affective: Affective: Affective: Accept the fast that nature is constently changing, whether man is present or not. Skills Used: Accept the fast that nature is constently changing, whether man is present or not. Skills Used: Accept the fast that nature is in a constant superior species, man is norder to insure his survival, man must incomplex, his environment. B. The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" Activities). Students supporting statistics, details, examples or	scribe the relationship tween coherence, unity,	The teacher offers a choice of topic sentences and	A
experience. lain why man must be con- gred a part of the sco- em rather than an entity limself. 1. Nature is in a constant state of flux. 2. Although considered a superior species, man is nevertheless only a part of a vast and in- tricate ecosystem. 3. In order to insure his survival, man must learn to fit into, not try to conquer, his environment. 1. Nature is in a constant superior species, man is nevertheless only a tricate ecosystem. 3. In order to insure his survival, man must learn to fit into, not try to conquer, his environment. B. The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" Activities). Students supporting statistics, details, examples or	er in paragraph writin the coherence, unity er of the ecosystem.	relop one using example reasons from his own	
tive: tive: 2. Although considered a superior species, man is nevertheless only a part of a vast and increase in in order to insure his survival, man must tricate ecosystem. and increase in the reacher provides a stimulus for writing on the ecosystem to insure his environment. B. The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" Activities). Students supporting statistics, details, examples or	xplain why man must be	topic sentences:	æ
superior species, man is nevertheless only a part of a vast and intricate ecosystem. aragraph development. be the fast that nature constently changing, her man is present or not. her man is present or not. be the fast that nature learn to fit into, not try to conquer, his environment. B. The teacher provides a stimulus for writing on the ecosystem topic (see "Outside or Community" Activities). Students react with a topic sentence and develop that idea with supporting statistics, details, examples or	ystem rather than an n himself.	ture is in a c	
superior is nevert is nevert part of a part of a part of a part of a tricate e part of a tricate e part of a tricate e survival, in order survival, her man is present or not. her man is present or not. Paragraph development writing topic sentences Seeing parallels Seeing parallels supporting stand develop the supporting stand details, examp	Affective:	Although considered a	\circ
part of a tricate end tricate. Seeing parallels Darriting topic sentences Seeing parallels Darriting topic sentences Seeing parallels Darriticate end tricate end tricate end tricate end tricate end tricate end tricate. Surryival, The teacher probability for the ecosystem "Outside or Connect with a tricate end tricate. Seeing present or not. B. The teacher production for the ecosystem end tricate end tricate.	a topic	perior species, man nevertheless only a	
saragraph development. 3. In order to ins survival, man me constently changing, her man is present or not. her man is previous. Stimulus for writin the ecosystem to fit in the ecosystem to conquer, not. her man is previous for writin the ecosystem to fit in the ecosystem topic or Communi Activities). Stude react with a topic and develop that id supporting statisti details, examples or	hrough the deductive me	of a	
survival, man me learn to fit in try to conquer, environment. B. The teacher provide stimulus for writing the ecosystem topic sentences Seeing parallels Seeing parallels survival, man me learn to fit in try to conquer, environment. B. The teacher provide stimulus for writing the ecosystem topic not and develop that id supporting statistic details, examples o	H	 In order to insure 	
her man is present or not. her man is present or not. try to conquer, environment. B. The teacher provide stimulus for writin the ecosystem topic "Outside or Communi Activities). Stude react with a topic and develop that id supporting statisti details, examples o	ccept the fast that natur		
Used: Used: Paragraph development Writing topic sentences Seeing parallels Seeing parallels try to conquer, environment. B. The teacher provide stimulus for writin the ecosystem topic "Outside or Communi Activities). Stude react with a topic and develop that id supporting statisti details, examples o	constently changing,	rn to fit into,	
Used: Paragraph development Writing topic sentences Seeing parallels Seeing parallels B. The teacher provide stimulus for writin the ecosystem topic "Outside or Communi Activities). Stude react with a topic and develop that id supporting statisti details, examples o	man is present or	to conquer, ironment.	
Used: Paragraph development Writing topic sentences Seeing parallels Seeing parallels Seeing parallels Stimulus for writin the ecosystem topic "Outside or Communi Activities). Stude react with a topic and develop that id supporting statisti details, examples o		The teacher provides	
Paragraph development Writing topic sentences Seeing parallels	- 1	mulus f or wri ting ecosvstem top ic	
Writing topic sentences react with a topic seeing parallels supporting statisti details, examples o	osed:	tside or Communit	
Seeing parallels and develop that idea supporting statistics, details, examples or	Writing topic sentence	ct with a topic	
tails, examples	Seeing paral	d develop that idea pporting statistics,	
-		tails, examp	

reasons.

SUGGESTED RESOURCES	
CONTINUED OR ADDED LEARNING ACTIVITIES	

Publications:

- 1. Wang, J.Y. Editor Man and His Environment: Interaction and Interdependence, conference of Env. Sciences Institute, San Jose, 1969, ICE-RMC, 160 Wa.
- 2. National Park Services, Environmental Education in the Public Schools U.S. Dept. of Interior, 1970. ICE-RMC-120 np.

Audio-Visual:

Audio-

"A Slice of Bread" - Sterling Ed. Films, 1971. ICE-RMC-330 (16 min) "Harmony" King Screen Prod. 1971. ICE-RMC-340 (15 min) VIDEO-TAPE POSSIBILITIES:

"Primal Man" Series

"Jacques Costeau Specials"

"Seven Seas" Series

FILMSTRIPS:

Ecology ICE-RMC FS-ST 14
Ecological System Imperial Films
Co., Florida, ICE-RMC, FS. St. 19.

Community



	Environmental:		Integrated with:		
	CONCEPT NO. 2-Ecosystem B	BEST COPY AVAILABLE	SUBJECT	Language Arts (Intermediate)	
	ORIENTAT:ON Is Man an Islan	land?	TOPIC/UNIT	Writing Expository Essay	
1	BEHAVIORAL OBJECTIVES	STUDEN	T-CENTERED L	EARNING ACTIVITIES	
54	Cognitive:	In-Class:		Outside or Community	
013	udent will	A. The teacher	₹	ssay writing	
)(in a given	essays	h pert	ld be initiated wit	
-70	Ω	eme	Walden-J	lass trip	
9	te the thesis	erience	0	ea where	
5	upport it in a formal	mentation.	See	e ecos	
E	(2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		(p. 18)	ທ	
C	re thesis state			B. Local news accounts of pol-	1
i (nd complete storie	1. Student	s will a	17	
ï	rticles to par	the es	essays for state-	sregarding the ecosys	U)
EC	system and an ecosystem.	a source no regime	- 1000 ed+ 40 + 10	need to etimilate ideas	
ıo.		system.	1	CE field activity	
PF	Affective:	2. Student	ts will compose!	guide "He Said	
	F <	a formal	ΛŒ	s Wha	
11	as a result of expe	which	ey present	ICE-RMC.	
e l	ng the process	the th	×.		
itle	•	their	ß		
T	the fact	conclu	sions of the req		
Α.	is made:	ported	ported experience.		
	ts just				
S. E	ticle is made	B. A speaker	ld be i		
. 5	parte.	Saarnne og:	tile crass on		
F.		Island?" Som	e possi		
	- 1	guests cou	~		
	Skills Used:	conformist	of local repu-		
		tation, a	a social worker,		
	Anaiys	a guidance	e		
		Λ.			
		lecture co	could be taped the		
_		ss for	ţo ,		d by ERIC
		\perp	serv	15 °C	III Text Provide
		į.	(continued)		^ Ful

RMC: FS st 16. Man and His Environment In Harmony and In Conflict- center for Human-ities, New York, 1970 ICE-RMC-Kt. Four in a Wild Place, John Stallard the Nobel Prize Faulkner's acceptance speech for "Gone With the Antennas" BAVI Walden, Thoreau FILMSTRIPS: Interactions and Environments SUGGESTED RESOURCES Publications: Community: Audio-Visual: ICE thesis statement possibilities for students. IN CLASS (continued) CONTINUED OR ADDED LEARNING ACTIVITIES



S. E. Α. Title III PROJECT I-C-E 59-70-0135 ς ω 4 Skills Used: others elements of the system. various effects upon the ecosystem will result in Affective: lation of one element of Conclude that man's manipu-Cognitive BEHAVIORAL OBJECTIVES an ecological topic. a short research paper, using ORIENTATION CONCEPT NO. Research, organize, and Bibliography writing Note-taking Organization Research 2-Ecosystem Is man an write Island? the **m** × EXEMPLES: page research paper, comorganize and write a 5-8 plete with bibligoraphy. social unit, each member within the various roles played by "ecosystem" examining the community or school **ა** ს various aspects of his Students research the system. Students select a topic to the concept of the ecobe researched dealing with write a 5-8 page redecimation topic of their choice. search paper on the search, organize and directed learning Noise Pollution DDT controversy American chestnut The wolf population on Urban through teacher Dutch elm disease Near extinction of the Isle Royale lessons, students rebald eagle STUDENT-CENTERED LEARNING ACTIVITIES they then SUBJECT TOPIC/UNIT Writing and Research-Research tree Language Arts (Advanced) о С **B** Þ Outside or Community: conservationist or a city well-balanced ecosystem perts in their topic areas Students could contact exat the left. any of the suggested topics engineer could be invited experience of seeing a vide the student with the to speak to the class on A DNR representative, a natural area could pro-A field trip functioning efficiently. part of their research. Field trip to natural DNR representative Conservationists area near your school or community. to a local paper

Environmental:

Integrated with:

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

"Speaking by Doing"
National Textbook Company
Skokie, Illinois
Magazine:
"Vital Speeches"
Manual of Style - Turabian
Interaction and Systems
Science curriculum Improvement
Study, Univ. of Calif. Berkeley,
1970. ICE-RMC-100Br.

Audio-Visual:

Filmstrip: "Man-Managed Ecosystems" McGraw-Hill, ICE-RMC
#11-1.
Crisis of the Environment The
New York Times, 1970. ICE-RMC
Kt. 6.

Community:

Guest speakers knowledgeable of suggested subject areas.



-4

BEHAVIORAL OBJECTIVES

In-Class:

Outside or Community:

. S. E	. A.	Title	111 -	PR	OJECT	I-C-E	59-70-01	35-
		ronment and interpret them.	s own feeli	Affective:			Organize and produce a program, using his research and imaginative skills, in writi and speaking.	Cognitive:

ing on these themes.		followed to organize	ures would have to be	 Ask class what proced 	n	the third concept in the	ealing	The student will research A	
	m							A	

skills, in writing his research and

2 Ideas could include: TITY OIL CITCOL Use of reference

- **b** Consulting of materials
- 0 periodicals
- Division of class more direct study Preparation of into groups for

Q.

P

scripts

feelings to-

Use of visual aids pictures framed) (clipped &

Ε

ω N F

Organization

Research Speaking Skills Used:

- clean air. water and showing activ-Student prints dent on pure and slides ities depen-**C**
- **H** mentators, (continued) Choosing of com-

- Library Find essays nality to show. materials to add origito edit and combine these Emphasize the necessity materials that are perarticles and other tinent to the concepts.
- Assign the viewing of conniques for the class pre-Tuesday" and "60 Minutes" shows such as "First temporary documentary sentation. tc gather ideas and tech-
- Students should make elements of good getting techniques and notes about attentionreporting.
- 2 Emphasize the imporpresentations. originality in these tance of timing and
- ω speech text should be Portions of a good reading. assigned for outside
- As part of the show, inter-Such individuals as doctors community could be used. views of individuals in the (CONTINUED)

Publications:

Newsweek U.S. News & World Report

Ime

National Geographic

Newspapers

Speech Text

McCue, George Ecology (Series), Media Resource Materials

Benziger, Inc., New York, 1971. ICE-RMC-130 MC: 1-10.

Clark Publishers
Audio-Visual: 30 Basic Speech Experiences (continued)

News programs - TV and Radio Films

Family Planring - Walt Disney Educational Materials Co., 1968. 10 min. ICE-RMC #230.

ICE-RMC #520 1985 Metromedia Television 56 min

Community:

Public Librarian Newsmen

CONTINUED OR ADDED LEARNING ACTIVITIES

In-Class (continued)

technicians and directors for the actual show. Show class 1985 film, (See p. 22). Ask students create their own fictional newscast for the year 2000. to

Outside or Community (continued)

dentists, lawyers, factory workers.

Publications: (continued)

the breadth of this activity is very open-ended.) understanding that the possibilities are unlimited and (The included materials are generally presented with the



Environmental:

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Street Scene - Elmer Rice Death of a Salesman - Henry Miller West Side Story - Arthur Laurents

Audio-Visual:

Boomsville - Learning Corp. of America, New York, 1972. 10 min. ICE-RMC-400.

Environmental Quality Index.
America Is In Trouble - National
Wildlife Federation, 1970. ICE-RMC-Kt. 9.

Community:

Speech & Drama Teacher



And the state of t	T. S. E. A. Title III - PROJECT	T IC-E 59700135	- 4	The desiration control and the supplementary is a
Skills Used: 1. Organization 2. Research 3. Critical thinking 4. Oral presentation	Affective: Demonstrate an understanding of the complexities of the relationship between and the limitations of the earth's resources.	Corpare voluntary population limitation with government controlled population limitation. a. people's attitude b. inequities c. measures used	BEHAVIORAL OBJECTIVES	Environmental: CONCEPT NO. 3-Carrying Capacity ORIENTATION Can our earth susta
senting one of the game's six groups. Each team presents its arguements in debate form, an impartial third party (perhaps a guest class) defactoring the winner.	tion limitate ulation explaint for industrests for repair rests for respective and negative rebuttals. The play simulated class in the	D S C S C S C S C S C S C S C S C S C S	STUDENT-CENTERED LEA	Integrated with: SUBJECT TOPIC/UNIT
	side's case.	в. А.	RNING ACTIVITIES	BEST COPY AVAILABLE Language Arts (Advanced) Oral Communication - Debate

Publications:

Speaking by Doing, National Textbook Co., Skokie, Illinois Population Bomb, Paul Ehrlich Discussion and Debate, National Textbook Co., Skokie, Illinois Science and Survival, Barry Commoner. Viking Press, N.Y. 1966. ICE-RMC-120 Co. Survival With Style, Bradford Angier. Stockpole Books, Washington, D.C. 1972. ICE-RMC-115 Ar.

Audio-Visual:

New Highway Game - Educational Ventures, Inc. ICE-RMC Sg. 10.

Urban Sprawl - Stuart Finley, Inc. ICE-RMC-430 (21 min.)

Our Environment - Problem or Promise? AJ Nystrom & Co.

Chicago, 1972. ICE-RMC-Kit 52.

Community:

Public Library
State Historical Society,
Madison, Wisconsin

CONTINUED OR ADDED LEARNING ACTIVITIES



E. A. Title III **PROJECT** 59-70-0135 2. Skills Used: servation of water in the presents the need for conbest manner. of poems others. Find satisfaction in sharing Deliberately examine a variety an esthetic experience with tion, if present. Identify examples of each of reading. poetry they select for their and figures of speech in the the above in a poetry selec-Explain the significance of imagery, characterization, Cognitive: CONCEPT NO. BEHAVIORAL OBJECTIVES ORIENTATION Environmental: Oral reading Discussion to determine which Water, 4-Water Water, Everywhere? Examples: At The Aquarium To A Waterfowl - Wm Bryan Childe Harolde and Don Eastman Bishop The Fisk - Elizabeth Juan - Byron Modern Song Lyrics 2 Mariner - Coleridge Rime Of The Ancient Robert Frost Students and teachers will out of pockets, etc.) ance (stand erect, hands and making a good appeardiscuss what makes an efng for fluency, for modulatthe need for preparation, fective reading, such as the voice, projecting Students will select emphasize man's or present their readings Students will then animal's need for a poem which will to the class. pure water. STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT Integrated with: TOPIC/UNIT ı Poetry - (Interpretative Language Arts (Beginner Level) M Outside or Community: of professional readings available on record or their work. to aid the students in tape various samples The teacher could have poetic interpretation. pointers on successful invited to share some forensics coach could A speech teacher or Reading əd

Publications:

Black Bird: Carol & Donald Carrick Dial Press, N.Y. 1973. ICE-RMC (120 ca.)
Conserving Our Waters and Clearing the Air, American Petroleum Institute, 1968, (ICE-RMC-170 Pe)

Audio-Visual:

Records-Interpretations of
Poetry
Films:
The Stream-ACI films, Inc. N.Y.
1971 ICE-RMC 320 (15 min.)
Crisis of the Environment, The
New York Times, 1970, KT 6
(5 filmstrips and records)

Community:

Forensics Coach

CONTINUED OR ADDED LEARNING ACTIVITIES



E. A. Title 111 -**PROJECT** I-C-E 59-70-0135-4 2. Skills Used: poetic forms using water polperiment with a variety of Deliberately examine and ex-Affective: lution as a theme. illustrates what was seen. compose an original poem that View a film or slide presen-Cognitive: tation on water pollution and ORIENTATION CONCEPT NO. BEHAVIORAL OBJECTIVES Environmental: Creative Writing Synthesis Water, Water, Everywhere? 4-Water **B** A In-Class: expressive of their beautiful, pure water _äwrite an original poem could serve as a stimulus Students could be taken to their poetic creativisource or an ugly, polto an area where either a would then be asked to luted stream or river reaction to the pictures could be shown. Kt 47. on water pollution A film or water slide seen. put to music, is availabl Liquid of LIfe, a beautisentation Suggestion from ICE-CESA 3, 8 & 9, set of water slides STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT TOPIC/UNIT Integrated with: Students pre Poetry -Language Arts 0 Ħ A Outside or Community: Share!" "Go Solo, Then Shape and is being written as an set a mood if the poetry ground might be helpful to Use ICE Field Activity Guide Music played in the backin-class assignment. ω 2 ICE-RMC Original local poet - e.g. ducing their own poems. aid students in prowriting expertise to of his poetry and Frances May could be Doug Flaherty, U.W.O. St. Norbert College Poet - John Bennett invited to share some R. Nicholas (Intermediate) Available from

Publications:

From The Sea.

Graham, Thomas P, Ecological
Effects Of Hot Water Discharged
By An Electric Power Generating
Plant.
Univ. of North Carolina, 1971.
ICE-RMC 140 Gr.
Go Solo, Then Shape and Share
field activity ICE-RMC.

Audio-Visual

Filmstrips:
Understanding Lakes and Lake.
Problems - Univ. of Wisconsin
ICE-RMC-Kit 53.
Films:
The First Pollution-Stuart
Finley ICE-RMC-450 26 min.
Still Waters ICE-RMC-510.
Atomic Power Today - Service
With Safety-Nat'l AV Center.
Washington D.C. ICE-RMC-420
(25 min)

Community:

Sewage Treatment Plant; Atomic Energy Plant, Local Lake, Stream or River Area.

CONTINUED OR ADDED LEARNING ACTIVITIES



E. A. Title III -**PROJECT** I-C-E 59-70-0135-4 Skills Used: American poets' characteristics of water Attempt to identify common analysis skills presented by imagery as seen through the contained in American Literanificance of water imagery Affective: the teacher. ture as it pertains to the Identify examples of the sig-Cognitive: BEHAVIORAL OBJECTIVES CONCEPT NO. ORIENTATION **Environmental:** Analysis Reading Research Water, 4-Water eyes. Water, Everywhere? **B** in-Class: plug in the images. water imagery to correctly Assignment forces student to analyze poetry and spaces where images origto poems provided (blank students to fit images in-American authors; request use of water imagery in the poetry of 19th, 20th inate). taken from the poems of a variety of water images Provide the students with such as: Contemporary-Century American Writers Romantics -Have the student trace the STUDENT-CENTERED LEARNING ACTIVITIES Emily Dickinson Jeffers Sandburg Rod McKuen Longfellow Sara Teasdale Frost SUBJECT TOPIC/UNIT Integrated with: Poetry -Language Arts (Advanced) A Ħ Outside or Community: share with the class. an anthology of those section. work. assist students in their in as a resource person to analysis could be invited colleague skilled in poetry A college professor or a using water imagery to students) might compile Local newspapers often feature original in their Sunday special Analysis Teacher (or poetry

Publications:

Chad Waish Elements of Poetry, Doors to Poetry, Brooks and Waner,

Canoeing, Bushmaker K. & R. Ziebell.

Water Quality Survey of Black D.C. Eaerest Jr.-Sr. H.S. Scho-Creek field, 1969. ICE-RMC: 160 De.

Seymour, Wis, 1971. ICE-RMC 150Ha adv. science class of Mr. Hansete

Audio-Visual:

Filmstrips: Soaps, Detergents & The Environ-

Soap Detergent Assn. ICE-RMC FS-St. 15. 1971.

Films:

The Gifts-U.S. Dept of Interior, 1970. ICE-RMC-280 (25 min) New York. ICE-RMC 240 (40 min.) Rise And Fall Of The Great Lakes, Nat'l Film Board of Canada, Who Killed Lake Erie? BAVI, 1969 (50 min.)

Community:

Boating Enthusiast Facility in Area Water Pollution Abatement

CONTINUED OR ADDED LEARNING ACTIVITIES



E. A. Title III PROJECT I-59 **-70-0135** Skills Used: written conclusion. morse accurate basis of information results in a searching more than on source of sources, preparatory to Defend the argument that rereporting. Deliberately examine a variety Affective: dures and techniques of getmation. ting information. Identify sources of infor-Cognitive: BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. Environmental: Demonstrate proce-How is the 5-Air air around our community? TOPIC/UNIT ₩. P In-Class: blems. They will then arrange for and conduct ing possible solutions to to questions posed regardtaping or noting responses community offical of their used in interviewing a America by Studs Terkel,

": a "Pharaoh.") with the rest of the class especially Kid "Pharaoh. (Available in Paperback) local air pollution prolist of questions to be Students will prepare a The tapes will be shared air pollution. response to questions about statuses, taping their cultural and political ous economic, social, munity who represent variview people of the compreparation, will .nter-The students after adequate (See Division Street STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT Integrated with: Journalistis Language Arts (Beginner Level) Since this activity is basicalivities are listed here. shared in class, no such actlearning experience to be ly an outside or community **Outside or Community:** Skills ı The Interview

4484

Tape recorder use

Interviewing

problems.

of learning.

their interviews (in person, by phone or by mail). A short oral report to the class on the results would be a fine sharing

Development of criteria Determining community

Publications:

Division Street America, Studs Terkel (Dell Paperback)
Reporting, Charnley
Community Planning Handbook
Ginn & Co., 1970. ICE-RMC-110G,
Two Reporters Dig Those Crazy
Clues. ICE Field activity CESA
3, 8 & 9.

Audio-Visual:

Environmental Pollution-Our
World in Crisis, Ward's Natural
Science Establishment, filmstrip on air pollution, (ICERMC FST 1)
SMOG: The Air Pollution Game
ICE-RMC SG1

Community:

City Engineer, City Clerk,
Township Office
Dept. of Natural Resources;
Green Bay
Observe examples of air
pollution in community
Talk to qualified people about
what can be don to eliminate
air pollution.





E. S. E. A. Title III PROJECT I-C-E 59-70-0135 2. Skills Used: attitudes toward the environreporting, the type required clear, accurate unbiased news Believe in the importance of for development of mature ment. Affective: Apply the principles izational writing in feature story. Cognitive: BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. Environmental: Writing news Collecting facts 5-Air S Life of organa news or Just D Breath Away? A **.** In-Class: efforts (or lack of same) lution problems. in dealing with air polhensive report on local formation for a comprematerial as resource into use this bulletin board then might be instructed letin board display with stories and create a bulpollution news or feature collect samples of air Students could be asked to that issue. newspaper or periodical on their clippings. They form the basis of a class pollution problem. write a news story, feadents After completed, the stories can interview on a local air ture or human interest prepatory work, are assigned to STUDENT-CENTERED LEARNING ACTIVITIES **SUBJECT** TOPIC/UNIT Integrated with: When stu-Journalistic Skills Language Arts ₿. A Outside or Community: which students could quiz school press" session in guests for a "meet the high tinent to local air polthe guest on issues persentatives might serve as Local industrial reprecept. A local news reporter could experiences in covering lution abatement efforts. stories related to the conbe invited to share his (Intermediate) Story and Feature. 1 The News

Publications:

Handbook for Environmental Action Reporting - Charnley
Yellow Pages of Learning Resources-Wurman, ed.
Science Study Aids - U.S. Dept.
of Agr. Washington, D.C. 1970.
ICE-RMC:130 U.S.

Audio-Visual:

Filmstrip:
Ecology - Our challenger: AVID
Corporation. ICE-RMC: FS, ST.
17 - number 1.
EQI - America is in Trouble.

EQI - America is in Trouble.
Nat'l Wildlife Federation 1970.
ICE-RMC-Kit 9.
Films:
The 2nd Pollution-Stuart Finley
Inc., ICE-RMC: 460 (22 min).

Community:

Journalists Industrial Management Speakers





S. E. A. Title III -PROJECT I-C-E 59-70-0135-4 ων. Skills Used: of clean air as essential for Demonstrate his understanding the editor urging the curbwriting. Affective: problem, e.g. clean air, us-Construct a sound, logical ing of air pollution sources life by writing a letter to ing the media of editorial comment based upon a community Cognitive BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. Environmental: munity problems. Determination of com-Evaluation Writing 5-Air clean air? What can a citizen do **B** In-Class: attached sample. on clean air topics--see ហ ters to EPA or legislators Have students submit letω 2 Editorial Writing to get Have the class select for local newspaper. munity. Write editorials or the school paper or the best editorial for sources of air pol urgin the curbing of allow them to pollute and why is it necessary Discuss in what ways air pollution is allow-What problems are crelution in the com-Letters to the Editor in this community to creates other problems this one example amples for reasons why example of air pol-Survey community for air? ated by lack of clean lution. STUDENT-CENTERED LEARNING ACTIVITIES Discuss. Research ex-SUBJECT Integrated with: TOPIC/UNIT Journalistic Skills Language Arts (Advanced) Ħ A Outside or Community: would be an ideal guest speaker to give students an A local newspaper editor could be used as samples thorough editorial writing. the need for responsible technique and to point out idea of effective editorial stared. to help students Editorials from newspapers 1 **Editorial** get

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Sierra Club publication
Political Attitudes in Children
by Robert Hess.
The Cultural Basis of Our
Environmental Crisis-by Louis
Moncrief.

Audio-Visual:

Videotape newscasts for analysis.

Filmstrip Kit:
The Effects of Air Pollution on Plant Life US Dept. of Agr.,
1972 ICE-RMC-Kit 45.

Films:
Life in a Cubic Foot of Air BAVI Caronet, 1958 (10 min)
Air Pollution BAVI, 1968 (11 min)
Poisened Air-BAVI, 1966 (50 min

Community:

Local news people of TV, radio and newspaper.
Library (materials on various cultures and their attitudes toward the environment).



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Mr. George Howlett, Jr. 1001 S. Webster Avenue Green Bay, WI 54301

August 1, 1973

Editor Green Bay Press Gazette 435 E. Walnut Green Bay, WI 54301

Dear Sir:

The Honorable Congressman Harold Froehlich of the 8th Wisconsin District has in a news release reported that the U. S. Forest Service should contribute monies to local governments within national forest boundaries. He wishes to appear as "champion of local government". I take it that he infers local governments now receive no such funds in replacement for property taxes not collectable from federal lands.

That the record may be clear, the U. S. Forest Service is required by law to contribute to the support of local government out of tamber sale and other receipts. The cited references are 35 stat. 260, 36 stat. 961, 38 stat, 441, 58 stat. 737. 64 stat. 87, 16 U.S.C. 500 as quoted from USDA handbook No. 20, 1964.

"Twenty five percent of all monies received during any fiscal year from each national forest shall be paid at the end of the year thereof by the Secretary of the Treasury to the State or Territory in which said national forest is situated, to be expended as the State legislature may proscribe for the benefit of the public schools and public roads of the county or counties in which the forest is situated".

I would ask the Congressman to investigate the existing laws before raising false issues. It would also be good for the editors of local papers to check whether the Congressman in his news releases is putting out publicity just to keep his name before the public or is dealing with a real problem about which he is able to do something.

Sincerely,

George Howlett, Jr.



Environmental:

Integrated with:



management?

(continued)

Publications

The United Nations and the Human Environment.

(Free through Johnson Wax Foundation, Racine)

Ehrlich, Paul and Anne Population, Resources, Environment, Issues in Human Ecology, W.H.

Freeman & Co., Sen Francisco, 1970. ICE-RMC: 165 Eh.

Audio-Visual:

Filmstrips:

Conservation-Am. Petroleum Institute, 1965-66. ICE-RMC Kit 8.

Films:
Tomorrow World-Feeding The
Billions, Parts I & II. BAVI
1968 (51 min.)
Food For A Modern World-BAVI

1968 (22 min.)
Hunger in America-BAVI, 1968 (5

Community

- L. Land Developer
- 2. Budget Director

CONTINUED OR ADDED LEARNING ACTIVITIES

In-Class (continued)

- 6. If you came upon a similar situtation, what could (would) you do about it?
- ង grade. of 5 discussion questions based on the tape. The groups class divide into group, each of which and return their work to the original questions for a then exchange questions, discuss and record each set blem of uneven distribution of wealth. Show a video tape of a TV show dealing with the proprepares a set Have the



ORIENTATION CONCEPT NO. 6-Resources What is the good life? SUBJECT TOPIC/UNIT Integrated with: Group Discussion Language Arts (Intermediate)

Environmental:

BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEA	T-CENTERED LEARNING ACTIVITIES
Somitive:	In-Class:	Outside or Community:
Compare and contrast the life A.	A. Student-center in-class	A A member of the chambe
	activity.	
_	1. Have the class break	sible quest speaker.
	up into groups and	could outline for the
sources by writing a paper,	read the novels The	students the various
"How the main character's life	Old Man And The Sea,	utes and opportunities
	The Pearl, and/or Of	the student's own comm
	Mice And Men.	(of which many are all
	77	

Affective:

PROJECT

observing and discussing the student's immediate area. natural resources in the effect of resources through Demonstrate awareness of the

Title III -

Skills Used:

S. E. A.

- Reading
- Analysis Discussion

<u>.</u>

Use "Lifestyles Book

end product.

Report" by Rosalie Shier

ICE-RMC

₽ munity profile could be an presented. A class comgroup to share the ideas group choose) for each Appoint a spokesman (or let and how the geographical about student's life style location has influenced it and carry on discussion Divide class into groups which he lives." been molded by the area acter's life style has idea "How the main charpaper dealing with the group prepare a written Have each indivdual or (natural resources) His life style Mental attitude towards self. life and duty to one's n

₽.

- ensue. community facilities might as to the improvements for their age group in terms of students making suggestions unaware!). A dialogue with es of ll too munity per of -SOC attrib-He
- picture of the leisure time facilities available for students with a good overall agent might provide the In rural Areas, a county teenagers.

Publications:

Handbook for Environmental Action, Environmental Science
Center,
5400 Glenwood Avenue,
Minneapolis, Minn. 55422
Ten Years To Save Mankind, Dept.
of Natural Resources
State of Michigan,
Lansing, Michigan

Audio-Visual:

Student-created collages of various people's use or misuse of land.

Films:
City And Its Region, BAVI, 1963
(28 min.)
City Reborn-BAVI, 1967, (22 min)
Tahoe Today...And Tomorrow
BAVI, 1969 (15 min.)
We Like It Here-DNR (27 min.)

Community:

Speaker - Indian leaders, Industry spkesman, DNR Spkesman.
Historical records - local library, including pictures of given areas, then and now.

CONTINUED OR ADDED LEARNING ACTIVITIES

Outside or Community (continued)

C. A community walk in which negative and positive aspects of community life are examined might be an excellent field trip activity.



A. Title III PROJECT I-C-E 59-70-0135 2. ω 4. way of communication. Skills Used: his own as being a legitimate dislect, etc. different from Accept the use of a language Judgements as to his own language. responsibilities regarding Affective: resource affecting life using Identify language as a human fiction. the analysis of a piece of Cognitive ORIENTATION BEHAVIORAL OBJECTIVES CONCEPT NO. **Environmental:** Analysis Thinking Discussion Reading What is wealth 6-Resources in the city? ₿. A In-Class: ary extries.) the basis for the dictiondefine the items listed. dictionary" and ask memeach group formulate a bers of the other class to section of a "dialect class into groups, have the same novel, it might be interesting to divide each If two classes are studying discussion focusing on the (The novel read would be cited during discussion. jot down the best examples tary could be appointed to imagery, and descriptive author's use of dialogue, read to be used in general understanding of the novel questions based upon his language. A class secre-The student will create 3 Manhattan Transfer -Hative Son Invisible Man DosPas∵os STUDENT-CENTERED LEARNING ACTIVITIES - Wright (Chapter I) TOPIC/UNIT SUBJECT Integrated with: Group Discussion Language Arts (advanced) 8 A **Jutside or Community:** be a supplemental aid to American Dialects The record and/or film be impossible for people the study of language. understand. unfamiliar with it to use language which may students that they too analyzed to indicate to could be collected and Language - Local idioms could

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

The Story of Language, Mario American Dialects-Dictionary Reader's Guide To Periodical Thoreau's Writings.

Literature
Speaking by Doing.
National Textbook Company Skokie, Illinois formats.) (Shows all different speech

Audio-Visual:

Inc., ICE-RMC: 441 (22 min.)
Death Be Not Land-McGraw Ecology-The Game of Man & Nature Urban Systems, Inc., 1970. Hill Films ICE-RMC: 490 (26 min. The Green City-Stuart Finley, ICE-RMC-SC2 (simulation game).

Community:

at all grade levels. Language Arts Teachers



E. A. Title III **PROJECT** ---I-C-E 59-70-0135 ωΝ result of an advertisement. Skills Used: items that has purchased as Assume some responsiblility Aware of the environmental impact of advertised goods. having adverse consequences. quality and those that call for affect of advertising on Differentiate between adverthe enviroment by listing Affective: man to purchase commodities tribute to environmental develop attitudes which contisement and commercials that Cognitive: BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. **Environmental:** Analysis Use of tape Discussion Quality of Life - Openended? 7-Land Use recorder on ש ū . C **w** ď In-Class: "Bill Boards & Signs" see pp. 47 = .50 Ice Field Activity examples of products with attractive or unattractive advertising they find Ask students to bring in of that area? Transportation facilities The population? certain product. this affect the economy? if everyone did buy one Discuss what would result suasive tactics. of content appeal and permercials, class discussion can tape a variety of com-Students STUDENT-CENTERED LEARNING ACTIVITIES and/or teachers SUBJECT TOPIC/UNIT Integrated with: Land use? How woul Propaganda and Advertising Language Arts (Beginning) **w** A **Outside or Community:** welcome guest speaker. advertizing's effect on could be asked to discuss A Disc Jockey is always radio and vice versa. Schreiber Cheese Director of Advertising Advertiser - Suggestion Robert Sweetland

Publications:

Ginr & Co., 1970. Confessions of an Ad Man From the People Who Gave You Pearl Harbor Community Planning Handbook, The Selling of the President

want to do something about their neighborhood.) (For High school students, who

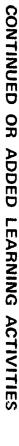
Audio-Visual:

ducts. Pictures and art drawings of pro-Tape recordings of commercials. Ads from magazines for discussion

Films:
Man Uses And Changes The Land
BAVI (coronet 1969) (#6889 11 min

Community:

Local Newspapers for pictures of community advertizing.





Project I-C-E
Serving Schools in CESA's 3-8-9
1927 Main Street
Green Bay, Wisconsin 54301
Robert Warpinski

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BILLEOARDS AND SIGNS

An Environmental Activity for Grades 5-12

Integration Potential	Concepts Involved
 Social Studies Mathematics Art Language Arts 	 Energy Carrying Capacity Values and Attitudes Manage, Manipulate, Change Individual Acts Stewardship

Introduction

Advertising billboards, sales promotion, informational, and directional signs are a part of our everyday life. vary only in number and intensity in different types of communities. There is a need and a purpose for signs and billboards ranging from providing necessary information to pure and simple economic exploitation. In the worst sense, they can create a monster called visual pollution that is both a real physical threat and an affront to our aesthetic The issue then is to discriminate between what is senses. necessary and desirable and what is unsightly and offensive in the number, kind, and type of signs and billboards. accomplish this we need to focus and sharpen our senses of perception and visual discrimination. And finally, when necessary, we must be committed to some action in a rational way, at least to be able to offer some suggestions for improvement.



Billboards and Signs - Activity Worksheet (Individuals or teams of 3-5)

1. Identify the area limits of survey -- draw a sketch of the streets, label them.

2. Take one, or several, pictures from a vantage point that best takes in the survey area: Locate your vantage point on sketch above by a .

3.	Tally of commercial	signs:						
	a) Identify type of	business	b)	Number	o.f	signs	for	each
								
	Managar -		*********		·····			
		the state of the s					,	

Total Number



Total Number

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d))														•													
e)	i																											
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b)		Se	le	ct	0	ne	mo	st	٠ ,	un:	ne	ec	es	sa	ry	7	an	d	е	×ŗ	18	ai	n '	wl	ny:			
c)	5	Se:	le	ct	0	ne	mo	st	ć	at	tr	ra	ct	iv	е	a	nd	6	X	ρĵ	.a:	in	w	hy	7:			
d)	S	Se:	le	ct	0	ne	mo	st	ι	ın.	at	tt:	ra	ct	i١	⁄e	a	no	i '	e >	rp:	la	in	V	vhy:			



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7. Select one commercial establishment, critique its use of signs and make suggestions for improvement.

8. Comment briefly on total perception, recommend any improvements you would make and tell why.

Resources: I-C-E RMC

115 Jo	DeSchool Primer: Your City Has Been Kidnapped
120	GEE, Our Man-Made Environment, Book 7
Film	Noisy Landscape, 13 1/2 min., color (Donated by NEW Chapter, American Institute of Architects)



pathetic proof

CONTINUED OR ADDED LEARNING ACTIVITIES

⁹ublications:

Lives and Loves of Dobie Gillis
"Tove Is A Fallacy"

Max Schulman

Kimball, Richard, poster series
on population problems.
J. Weston Walch, publisher

Portland, Maine 1971. ICE-RMC
190 Ki 1-4.

Audio-Visual:

Audio

Films:
All of the People, All of the Time, BAVI #3345, 1905 (30 min.)
Adventuring in Conservation BAVI #4912, 1959 (15 min.)
Last River BAVI #2447, 1965, (29 min.)

Community:

Chamber of Commerce
Advertising Agency Representative
Product Packaging Designer



	CONCEPT NO. 8-Values and Atti- ORIENTATION How does man view	Attitudes SUBJECT SUBJECT TOPIC/UNIT	Language Problem
0	Hcw does man	world? To	Problem
	BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LE	EARNING
	Cognitive:	In-Class:	Outside
	5 10 c+	A. The teacher will provide the students with several current ecological pro-	₽
	ttitudes.	mple, local, or national oblems involudes e.g. (reces e.g. will gaselves to woroblem of	
	in the form	ice. er a solution	
	Accept responsibility for the building of positive environmental attitudes.	tudents ther to dings.	
		B. Students will be asked to offer examples of local ecological problems from	
		n L L	
		Students will then be asked to group themselves	
	1. Research	ling to th	
	2. Group discussion3. Problem solving	Ø	
		S	

Publications:

pp 52-54. Saroyan, William See attached sheets The Time of Your Life. 52-54.

Audio-Visual:

Films:
Available from Univ. of Michigan The Ark a film parable of Modern Noak (20 min.) Arbor, Mich 48103 AV Center 416 Fourth St. Ann Pollution is a Matter of Choice NEC News Special (54 min.)

Community:

Specialist (if available) CESA Values Education

CONTINUED OR ADDED LEARNING ACTIVITIES

In-Class (continued)

- Basic Techniques of Problem Solving.
- Identify a problem
- Suggest possible solutions
- Choose one solution
- Provide reasons for choice
- See insert on creative thinking.

2



ENVIRONMENTAL PROBLEM AREAS

Air quality

Community structure (Human)

(Natural)

Ecosystem stability

Ecosystem & Communities

Energy resources

Energy systems

Environmental action

Environmental design

Environmental economics

Environmental ethics & adesthetics

Environmental law

Environmental quality for man

Estuaries

Fisheries resources

Forest Resources

Land use & zoning

Mineral resources

Noise pollution

Ocean resources

Outdoor recreation

Pest Control

Pollution control technology

Population (Human) (Wildlife)

Recycling

Regional planning

Resource conservation

Soil Management

Solid waste management

Technology *growth

Transporation systems

Urban growth

Water quality

Wilderness

Wildlife resources



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56/57

METHODS OF INCREASING CREATIVE THINKING

All of us are creative. The real problem lies in putting it to use. Only a few of us use more than a fraction of our creative ability. Poor health, inadequate motivation, mental laziness, lack of curiosity, and emotional mindedness may be factors relating to why our creative abilities are not used.

In order to increase our creativity, methods may be used. These methods are merely "tools"—they are not the mind.

BRAINSTROMING

Brainstroming is an unintentionally uninhibited group approach. Brainstroming was developed by Alex F. Osborn.

The objective of brainstorming is to produce the greatest number of ideas for later evaluation and development.

Brainstorming is a group approach to increase creative thinking. Four rules to follow:

- 1. Judicial thinking must be withheld--until ideation is carried out.
- 2. "Free-Wheeling" is welcomed.
- 3. Quantity (of ideas) is desired.
- 4. Combination and improvement (of ideas) are sought.

GORDON TECHNIQUE

The Gordon Technique is a variation of brainstorming. The Gordon Technique was developed by William J. J. Gordon. The object is to produce one best idea and carry it through testing and evaluation, verification, development and production in the final form.

The Gordon Technique is a group approach. Four guidelines:

- The Chairman leads a discussion on the subject which is central to the problem.
- 2. The chairman does not reveal the specific problem until the group is close to a satisfactory solution.
- 3. A free discussion follows.
- 4. When close to a solution, the chairman tells the specific problem and the group develops the idea in detail.

ATTRIBUTE LISTING

Attribute listing is a technique used primarily for improving tangible things.

Attribute listing was developed by Robert P. Crawford. Attribute listing can be used by individuals or by a group. The objective is to better satisfy the original purpose of the object, or to fulfill a new need with it. The procedure:

- 1. Choose an object to improve.
- 2. List the parts of the object.



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- 3. List the basic qualities or features of the object and its parts.
- 4. Change or modify the attributes.

CATALCO TECHNIQUE

The catalog technique is the reference to various catalogs as a means of getting ideas that will, in turn, suggest other ideas.

FREE ASSOCIATION

Free association is a method of stimulating the imagination to some constructive purpose.

The objective of free association is to produce a quantity of intangible ideas, such as slogans, designs, names, etc. The procedure:

- 1. Jot down a word, symbol, picture, which is related to the problem or subject under consideration.
- 2. Jot down another word, symbol, picture, suggested by the first one.
- 3. Continue in the same manner until an idea emerges.

CHECK-LIST TECHNIQUE

The check-list technique is a system for getting ideas or clues by checking the items on a prepared list against the problem or subject under consideration.

The objective is to gather a number of general ideas for further development into a specific form.

INSPIRED (BIG DREAM) APPROACH

The inspired (big dream) approach is a "breakthrough" approach which sometimes leads to great advancements. The object of the inspired (big dream) approach is to make the greatest possible achievement for human benefit. Three phases of the approach:

- 1. Think the biggest dream possible--something to benefit mankind.
- 2. Read, study and think about every subject connected with your big dream.
- 3. Drop down a dream or so, then put your dream into reality.



S. A. Title PROJECT I-C-E 59-70-0135 2 Skills Used: others negative environmental which encourages a change in • attitudes. Develop a code of behavior Affective: model in defined environmental attitudes situations. Apply the problem solving Cognitive: BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. Environmental: Writing skills Research How does man view his world? 8-Values and Attitudes A In-Class: 2 tions at right). of environmental problems presents visual examples presentation, the teacher With a slide or picture (prepared series suggesgood follow-up. solution might be a and arrive at one class an attempt to evaluate A full-class share <u>ი</u> session, with perhaps ρ, Students in small ი • • a outlined below & create blem Solving Model as groups, use the Proa solution. STUDENT-CENTERED LEARNING ACTIVITIES solution as applied success of the Evaluation of the Divergent thinking cepted and pplied Convergent thinking A solution is acor practical) rowed to possible brainstroming of blem Statement of propossible solutions (solutions are nar-**SUBJECT** TOPIC/UNIT Integrated with: Problem Solving Language Arts (Intermediate and A. Outside or Community: 2 Suggested A.V. Presentations What I Think!" "He Said What? Use ICE Field Activity Guide other's views as sti-This activity helps Portland, Maine 1971. Weston Walch, Publisher, mulus for writing. students choose key A poster series-by ment-New York Times, Crises of the Environtranslate them, and use ICE-RMC-190 Ki- 1-4. lation problems. J. Richard Kimball on popu-1970. (ICE-RMC Kit 6). Advanced) Well, Here's ideas,

(continue)

Publications

Examining Your Environment (Series) Mine Publications. Inc ICE-RMC 120 Ma 1-6. Edberg, Rolf, On The Shred Of A Cloud, Harper and Row, 1966. ICE-RMC 100 Ed.

Audio-Visual:

Simulation Game:
The Game Of Sacrifice-by Education Ventures, Inc., ICE-RMC Sgll. (Excellent:)
Films:
Post No Bills Contentins
McGraw Hill 330 W. 42nd St.
New York 10022 (10 min.)
So Little Time BAVI #7337

Community:

1969 (32 min.).

Planned Parenthood School Nurse City Engineer, Etc.,

CONTINUED OR ADDED LEARNING ACTIVITIES

In-Class (continued)

(See p. 55 for ideas.). Students apply the problem The teacher provides the students with an extensive Students present a paper to the class which outlines solving model in choosing a solution to the problem. their work for evaluation and discussion. choice of stated, specific environmental problems.



., ORIENTATION Is Man an Effective Citizen? CONCEPT NO. Environmental: 9-Management TOPIC/UNIT Role-Playing (9-12) SUBJECT Integrated with: Language Arts

		· · ·	E		S.	Ε.	Α.	T	itle		<u> </u>		PR	OJ	EC	T	1-	-C	E		59)	70-	0′	135-	-4	·
 Research Role-playing Listening 	Skills Used:						collection.	מור שמור	ronment, ir	s man can change and	e he		Affective:										form and reform his environ-	Demonstrate man's ability to	Cognitive:		BEHAVIORAL OBJECTIVES
		. •		_	/ m												_	•			_		hand.	A	In-Class:		,
	below dam.	7. Water rights above and	landsite	6. Aesthetic value of	5. Creation of watershed		ש	A Creation of swimming	3. Electrical power availt	trees	2. Removal of landmark		1. Flooding of Wildlife	effect	have any of the following	whic	The d	se possib	י עם	Ħ	mon interest problem from	sis a s	ar	Role-playing - Simulates a	ass:		STUDENT-CENTERED LEAF
							C.			•)													A.	Ç		LEARNING
					8, 9- I	Ladies and	ICE Field Activity Good	nrohlome Hewspapers for refaced	COKS,	1	role-playing experience.	stantiating the students	and as a means of sub-	being		.nto their v	0		tal conflict of interest.	cription of an environmen-	a new	select, bring to class and	Have students research,	Community	Outside or Community:		3 ACTIVITIES

Publications:

Environmental Science
Mankato State College, 1974.
ICE-RMC-125 Ki.
Advanced Level:
The Forester At Work
ICE Field activity - George
Howlett.

A dio-Visual:

American Forest Institute,
Washington D.C. Set of 5 reel
to reel tapes on forestry management. ICE-RMC-Kit 45.
Films:
Films:
The Best We Can Do Am. Insitute
of Architects ICE-RMC 440 (30
min.)

Community:

TV

Newspaper
Radio
Townspecple
DNR State Dept. of Conservation
Dept. of the Interior
(continued)

CONTINUED OR ADDED LEARNING ACTIVITIES

Community (continued)

Council of Governments Northeast Wis. Planning Commission Wisconsin Ecological Commission



S. E. Title III PROJECT I-C 59-70-0135 Skills Used: by listening attentively. environmental presentations expressed in oral or written written material provided by Receptive to major ideas as Affective: the teacher or guest speaker. taking notes from verbal and Demonstrate techniques of Cognitive: ORIENTATION CONCEPT NO. DEHAVIORAL OBJECTIVES Environmental: Note-taking Listening Are "Prophets" only Dollar Signs? TOPIC/UNIT 10-Economic Planning A In-Class: 2 The Ψ and provide two note-taking exercises: the note-taking process Q • Provide an article **.** teacher will explain Suggested Topics: based on their listenask them to take notes relevant article and Read to the class a to read and take notes cept for the students relevant to the con-· bur STUDENT-CENTERED LEARNING ACTIVITIES Drug abuse vs. individual cara Mass transportation Population limita-Forests for indusfor recreation explosion try vs. forests tion vs. population SUBJECT Integrated with: Listening and Reading Language Arts с· ₩. Cutside or Community: success. evaluate their note taking sented to help the student The teacher could review speaker. the important facts prematerial supplied by the both the oral and written The students take notes on written material prepared planning. He could be asked ecologically sound economic on a successful example of asked to address the class A guest speaker could be activity B: Suggested Speakers for for the students. to supplement his talk with BEST COPY AVAILABLE Birth rights advocate Industrialists Newspaper Reporters District oil rep people Mass transportation user Rehabilitated drug (Beginning)

Publications:

America the Raped

Diligent Destroyers - Laycock

Population Bomb - Paul Ehrlich

Grapes of Wreath - John

Steinbeck

Audio-Visual:

Environment-1 filmstrip and the Environment-1 filmstrip and cassette (ICE FS-ST 15)

Transportation-1 filmstrip and cassette (ICE FS-ST 20)

pics in Ecology-#4 Prosperitypollution (ICE Kt 1)

Filmstrip and record

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES



·····	E. S. E. A. Title III ··· P	ROJECT I-C-F 59-70-01:	354	
Skills Used: 1. Research 2. Oral presentation 3. Class discussion	Accept new environmental ideas	Select appropriate data for use in substantiating a position in an oral presentation on the use, misuse, of the environment.	BEHAVIORAL OBJECTIVES Cognitive:	CONCEPT NO. 10-Economic Plan ORIENTATION Are "Prophets" O
ntations by ph in ideas prese ntence summari	4. Water and a abuse B. After reading a azine article, viewing a films issue related t cept, students to orally reporformation contato the class. "listener" will to react to his	A. Students provide one sheet of date on an issue related to the concept, and give an oral presentation based on that data. The remainder of the class will B. Social studies teachers suggested Topics: 1. Population control 2. Drug abuse 3. Use of automobile and reactional webicles and publications.	In-Class: STUDENT-CENTERED LEARNING ACTIVITIES Outside or Community:	Planning SUBJECT Language Arts (Intermediate) s" Only Dollar Signs? TOPIC/UNIT Listening and Reading

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Population Bomb, Paul Ehrlich
Future Shock, Toffler
Diligent Destroyers, Laycock
Popular Science, Aug. '73
"How To Operate A Land Vehicle
And Protect The Wilderness Too"

Audio-Visual:

Soaps, Detergents And The Environment-1 filmstrip and cassette (ICE FS-ST 15)
Transporation-1 filmstrip and cassette (ICE FS-St 20)
Topics In Ecology-#4 ProsperityPollution (ICE Kt 1)
Filmstrip and record

Community:



PROJECT I-C-F. 59 -70 -0135 green effect the environment. sentation on how a person's Listen carefully to a prestruction of the environment of people's greed on the degroup's position on the effect Skills Used: and examples to support his Actively participate in contributing related materials Affective: logical rationale. sentations and develop a used in the other groups pre-Identify fallacious reasoning Cognitive: BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. **Environmental:** Debate Lcgical reasoning Research How Do We Defend Our Beliefs? 10-Economic Planning Ħ A In-Class: challenge the ideas of should be prepared to reasoning. fallacions reasoning identifying areas where their classmates by students prepare a group All students read Love is another of Fallacious is a Fallacy by Max Shulman. best saved for last:) optimistic tone might be groups. edness) on individuals and tion) using one form or n any economic plar In small groups, the human greed (short-sightdealing with the effects o sent a panel discussion They then are asked to prethe novels chosen. into groups according to or Walden and then divide The Octopus, The Jungle, Students can choose to read Our Plundered Planet (e.g. how to fight infla-STUDENT-CENTERED LEARNING ACTIVITIES (Walden's more Students SUBJECT Integrated with: TOPIC/UNIT Listening and Language Arts A Outside or Community: Field trip to a Meatpossiblity. velopment could be a Kaukauna) or a land de-Packing Plant, A Protected ecological Area (e.g. Thousand Island BEST COPY AVAILABLE Reading (Advanced) In

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Our Plundered Planet
The Jungle
Walden
The Octopus
Love is a Fallacy-Max Shulman
Elmer Gantry-Sinclair Lewis

Audio-Visual:

Films:
City and Its Region #5893 BAVI
1963 (28 min.)
Who Shall Reap? BAVI #4383,
USDA, 1969 (28 min.)
Planning to Prosper-#1701 BAVI
1968 (20 min.)

Community:

Any kind of agency involved in planning could be a good source of information.



S. E. A. Title **PROJECT** 59 -**70**--0135 mony in relation to man's importance of himself in the betterment of the environment ments of structure, about the Skills Used: harmony in the world. Enjoy the short story's hara short story, having the elein the short story. Create Cognitive: Affective: Identify elements of structure BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. **Environmental:** Outlining Collage Group cooperation Definition Am "I" Important? 11-Individual Acts Ħ A In-Ciass: of each concept. a bulletin board display group, create a montage fo flict. They then, as a story read, students define In terms of the short 2 the terms harmony and conby John Steinbeck.) Students read a short story (e.g. Leader of the People After reading, the stuclass. story read by the depicting one of the will make a collage groups, each of which They will then be asked met). short story (introducbasic elements of the dents will outline the five elements of the to divide into 5 crisis, climax, denoution, raising action, STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT Integrated with: TOPIC/UNIT Short Story - Organization Language Arts (Beginning) **.** A Outside or Community: BEST COPY AVAILABLE offer suggestions to stu-A field trip to show concollage creation. dents as to effective . might be called upon to be helpful. conflict (e.g. a factory and then a lake area) might trast between harmony and The school art teacher

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Dawn of Remember Spring

Split Cherry Tree
Stuart
"Transcendentalism" ideas of
Ralph Waldo Emerson

Audio-Visual:

Who Am I-#206,
Man & His Environment-#221
Man's Search For Identity-#225
Center for the Humanities, Inc.
White Plains, NY 10603

Community:

Any areas where conflict and/or harmony can be observed.



	E. S. E. A. Title III — PF		T	
Skills Used: 1. Comparison and contrast essay 2. Analysis of Short Story	Respond both to intellectual and emotive statement within a short story about the individual and his environment. Criticize short stories that indicate that man can do little about his environment as individual.	Identify figures of speech within a short story to determine their value in communicating an idea more effectively.	BEHAVIORAL OBJECTIVES Cognitive:	=
made into a cture book.	essay reading (such ned a find will he strong wing wing wing sawing breson ting wing wing wing wing wing wing wing w	A. The student will read "A White Heron" by Jewett and will: Compare and contrast the use of figurative language (Imagery, tone, style, symbol, etc.) in the short story to the nonverbal, visual communication in the film essay Cry Of The Marsh, in a comparison con-	In-Class: STUDENT—CENTERED LEA	Integrated with SUBJECT TOPIC/UNIT
		A. Video tapes made of TV dramas that pertain to the orientation might supplement this assignment. B. If available an author of short fiction (amateur or professional) might help students to locate and analyze figurative language more effectively.	LEARNING ACTIVITIES Outside or Community:	age /

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Eco-Fiction

Under The Lion's Paw And Other Stories, Hamlin Garland Great Stories Of Action And Adventure - available from Madison News Agency.

Audio-Visual:

Films:
Cry Of The Marsh, ICE-RMC #390
Recycling--Stuart Finley,
Inc., ICE-RMC- #500 (21 min)
Snow Goose Made fc TV (video tape replay)

Community:

Soylent Green - a modern film (perhaps not available at area theaters)
Billy Jack-a modern film



PROJECT -70--0135 Skills Used: stewardship concept. carries out the responsible and public rights of ownership conflict, which position situation in which private Decide when presented with part of the environment. son's or industry's use of a been violated by another perparty, when his rights have Seek justice for the offended Affective: plain how it would operate ciples are followed and ex-Construct an ideal situation Cognitive in which the stewardship prin-BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. Environmental: Analysis Group Discussion Community Resource Use 12-Stewardship Is ownership stewardship? ti In-Class: pearances at meetings. editor, phone calls to radio talk shows, or apoccurring locally, student and support their position take a stand on the issue can research the problems, Should such a conflict be through letters to the 2 selection related to the After reading The Butterfly groups discussion. concept) students will, in Revolution (or another Define the conflict of each in terms of the comes and evaluating decisions and outconcept. other literature they similar examples from They would then cite beneficial. be most ecologically which position would the book, determining rights as expressed in private vs. public have read, comparing STUDENT-CENTERED LEARNING ACTIVITIES TOPIC/UNIT SUBJECT Integrated with: Critical Reading Language Arts (Beginner) ₽. Outside or Community: students'interest in a particular problem natural outcome of the etc.) could become a suggested bicycle path, creational vehicle trail, "B" at left. Conservation agent, DNR development, proposed re-A field trip to any area an issue as suggested in as speakers to help choose under dispute (a land developer could be invited tect, local farmer or land Science Teacher, Archi-Ranger, Agricultural representative, Forest

Publications:

The Student As Nigger

Jerry Farber

Animal Farm, Orwell

Christ Climbed Down

Laurence Ferlingetti

Deliverance, James Dickey

In The Zone, Eugene O'Neill

Man's Control Of The Environment

To Determine His Survival...Or

To Lay Waste His Planet, congressional Quarterly, Washington

D.C. 1970. ICE-RMC-100 Ma.

Audio-Visual:

Harmony (ICE Film 340)

Junk Dump (ICE Film 310)

Simulation Game

New Town-Harwell

Assoicates ICE-RMC Sg. 8.

Community:

The possibilities here are endless.

CONTINUED OR ADDED LEARNING ACTIVITIES



111 E. Title **PROJECT** I-C-E 59-70-0135 4 0 ωΝ Skills Used: environment. more responsible use of the change in behavior toward a Promote the adoption of a Affective: behavior in a piece of fic-Cog...tive: ORIENTATION tion. Identify human motives BEHAVIORAL OBJECTIVES CONCEPT NO. Verbal communication Analysis Group discussion Expository essay Listening Is ownership stewardship? 12-Stewardship and ₩. In-Class: write an expository essay havior in terms of the dealing with one charac-After reading a short ters' motivation and becept, story dealing with the con-2. of a character from the dents will group themor another novel related selves according to choice to the concept, the stu-After student reading novel. Beasts And The Children, the novel, Bless The They will identify and might have been made. or might have innatural resources a better use of our ter's decision so that fluenced their characcharacters influenced ways in which other They will then suggest quotes, from the novel document with specific havior is based. their character's bethe morives upon which the students will STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT TOPIC/UNIT Critical Reading 0f Language Arts (Intermediate) Þ ₩. Outside or Community: nuisance). cyclables, as well as school environment." people to change behavior be a great opening for dismaterials would be a good a plant that uses--recycled If possible a field trip to view this as nothing but a project. community reaction to their could discuss creative new and attitude toward the cussion of "how to get itive response. This can The majority of kids may to help with the project. item, and to ask one friend bring in one recyclable Students might be asked follow-up. uses for some of the re-If time permits, students have trouble getting a pos-(e.g. Janitors who

Environmental:

Integrated with:

BEST COPY AVAILABLE

stewardship theme.

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Bible - Stewardship Parable
Bless The Beasts And The
Children
Lord Of The Flies, Golding
Alas, Babylon, Frank
Pegman, Zindel
How To Conduct A Clean Up Campaign - free booklet, send postcard to:
Nat'l Wildlife Feders on
Educational Service opt. YB
1412 Sixteenth Street N.W.
Washington, D.C. 20036

Audio-Visual:

Films:
Things Worth Saving
Nat'l Center for Resource
Recovery ICE-RMC-370 (50 min.)
Recycling Resources
Continental Can Inc., 1971.
ICE-RMC-Sg. 6

Community:

Recycling Firm Representative



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Project ICE Serving Schools in CESA 3-8-9 1927 Main Street Green Bay, Wisconsin 54301

Credits: Sally Kinney

Harrison County
High School

Cynthiana, Kentucky

EXERCISE #7

Title of Lesson: Reading with a Purpose

Purpose: To make students aware of more than the plot and characters in a book length work of fiction.

Behavioral Objectives: After this exercise, 75% of the students will be able to:

1. Understand the importance of the physical setting in work of fiction which they read

2. Understand that they can learn much more about nature while reading for pleasure

3. Give a book report which does something other than summarize the book's plot

Materials Needed:

Library books with an emphasis on natural surroundings and wildlife such as Call It Courage, Island of the Blue Dolphin, Robinson Crusade, Call of the Wild, The Yearling, Goodbye My Lady, When the Legends Die, Let the Hurricane Roar.

Activities:

1. Discuss the fact that writer often use vivid description of the surroundings in a story.

2. Read Stuart's short story, The Slip Over Sweater, to show how the writer has used description as a background for his story.

3. Visit a library to check out books in which climate, natural surroundings and/or wildlife play an important part.

4. Discuss books in small groups emphasizing the settings and pointing out how these had a bearing on the plot, the characters, etc.

5. Have students in each group pick the story which seemed to give them the most insight to nature and have the students who read this book be on a panel with those chosen from other groups. Have panel present a discussion on "The Importance of Setting in Works of Fiction."

Follow-up Activities:

Have students write a paragraph about the use of natural surroundings in works of fiction.

Evaluation:

Grade book reports by moving from group to group to determine whether students are describing setting and whether they are making the setting of their book vivid to the listeners. Evaluation in this exercise is informal and is not to be used in determining student grades.





surveys and/or polls

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Faulkner, edited by Malcolm
Cowley
Six Great Modern Short Novels,
Dell Publications
Principles of Criticism,
I. Richards
Patterns of Criticism,
Victor Hamm

Audic :: :al:

Films:
Harmony,
film, ICE-RMC-340 (15 min.)

Junk Dump, ICE-RMC-310 (15 min.)

Neighbors of the Land-BAVI #1477,

1961 (22 min.)

Our Public Lands-BAVI #4623, 1961
(28 min.)

Community:

