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AUTHOR Hayden, Harvey; And Others
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ABSTRACT

To some educators, infusing environmental education into different subject areas at different levels may seem like an insurmountable task. This handbook was developed to take the guesswork out of this process and alleviate the fear and confusion that may result. It was designed to assist with infusing awareness and attitude activities into the classroom, correlate widely used curriculum supplements with the objectives and principles in the Wisconsin Department of Public Instruction's environmental education guide, and simplify the infusion process using proven and effective activities. Activities are categorized by subject areas, grade levels, environmental education objectives, and ecological principles. Major resources coordinated in this volume include: (1) "Project Learning Tree"; (2) "Project WILD"; (3) "Living Lightly in the City"; (4) "Nature with Children of all Ages"; and (5) "Sharing Nature with Children." The "Fundamental Environmental Principles" are enumerated. Appendices include a "Grades K-3 Appendix" and additional environmental education resources. (CW)

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Avoiding Infusion Confusion

A Practical Handbook for Infusing
Environmental Activities into your Classroom

written by

Harvey Hayden Marcie Oltman
Richard Thompson-Tucker Sonya Wood

consultants

Dr. Randall Champeau Ms. Martha Monroe
Dr. Richard Wilke

sponsored by

Central Wisconsin Environmental Station
Wisconsin Association for Environmental Education
University of Wisconsin-Stevens Point

Stevens Point, Wisconsin 54481

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Harvey Hayden Marcie Oltman
Richard Thompson-Tucker Sonya Wood

Additional copies of Avoiding Infusion Confusion are available for grades
K-3, 4-6, 7-9, and 10-12.

Write or call:

Central Wisconsin Environmental Station
7290 County MM
Amherst Junction, WI 54407
(715) 824-2428

(See order form at the end of this handbook.)

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INTRODUCTION

"Environmental education should permeate the entire curriculum with every subject area at every grade level dealing with the environment in some way," according to the Wisconsin Department of Public Instruction's A Guide to Curriculum Planning in Environmental Education. To some educators this may seem like an insurmountable task, especially to those unfamiliar with what environmental education has to offer. To help simplify the process of infusing environmental education activities into your present curriculum, we have developed a handbook that takes the guesswork out of this process and alleviates the fear and confusion that may result.

What is "Avoiding Infusion Confusion"?

It is a handbook designed to...

...assist educators with infusing environmental education activities into the classroom.

...correlate widely used curriculum supplements with the objectives and principles in the DPI's A Guide to Curriculum Planning in Environmental Education

...simplify the infusion process utilizing proven and effective activities.

How is it used?

The format is designed for quick reference. Activities are categorized by subject area. They are also coordinated with grade level, environmental education objective and ecological principles.

Why was this handbook written?

It was written to assist...

...school districts in developing a program for the infusion of environmental education into Wisconsin Public School curricula as required by state mandate.

...individual teachers in selecting appropriate activities best suited for their classroom situation.

...educators in developing a systematic approach to infusion that will help reduce preparation time.

By infusing environmental education activities into every subject area in our school systems and in our student's everyday lives, we are increasing their knowledge, and appreciation of the natural environment. We are also insuring that students will be better equipped to make responsible decisions when faced with environmental issues. The task of infusing environmental education may seem like a tall order, but we're sure you'll agree that it's well worth the effort. Good luck!

Objective Categories

Grade-Level Emphases on Environmental Education Objective Categories

Level	Major Emphasis	Minor Emphasis
K - 3	Awareness Attitudes	Knowledge Skills Participation
3 - 6	Knowledge Attitudes	Awareness Skills Participation
6 - 9	Knowledge Skills Attitudes	Awareness Participation
9 - 12	Skills Participation Attitudes	Awareness Knowledge

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We have divided our handbook into four separate parts, according to grade levels. The four are: K-3, 4-6, 7-9, and 10-12. Piaget's levels of intellectual development illustrate the importance of teaching basic skills and concepts to young children, and moving towards more challenging activities. This is reflected in a changing degree of emphasis on each objective category for each of the four grade-level groups. As an administrator or teacher, you will want to know what to emphasize with your students and what will be emphasized in other grades, as well as your own. This will insure that each program has sequence, and each student has consistency from year to year.

Finding an activity in this handbook: An Example

Imagine that you are a seventh grade Language Arts teacher planning a lesson that incorporates the ecological concept of interdependence. You would like to use an activity that would help illustrate this concept and would be appropriate for the grade level and subject area that you are teaching. You have a number of environmental education resources (i.e. Project Learning Tree) but you have not had a chance to use them extensively in the classroom. Along with your other materials you have this exciting new handbook that is designed to simplify the process of infusing environmental education into your lesson plans.

- Step 1.** Turn to the "Concept Index" in the back of this handbook under "Interdependence" listed alphabetically. Next to the concept is the principle number and the page number it is located on. You may use either the principle number or the page number to locate this concept.
- Step 2.** After finding the page number and/or principle number, turn to the Environmental Activities Section and locate the appropriate page. You will find the concept (possibly along with others) at the top of the right page.
- Step 3.** Locate the environmental education resource you would like to use from those listed in the left column.
- Step 4.** Move across the row of boxes until you are beneath the correct content area. This box may contain a list of activity titles and page numbers. An empty box means that there was not an appropriate activity in the environmental education resource for this subject area and concept. If one or more activities are listed, turn to the environmental education resource that you are using and check to see if the activity teaches the concept you are interested in. Remember that an asterisk in the box indicates additional activities for these concepts and this environmental education resource are located in the appendix of this handbook.

Fundamental Environmental Principles*

<u>Concept</u>	<u>Principle</u>	
		I. Fundamental Principles Dealing with Earth's Environment
		A. Earth's environment operates as a system supported by conditions that are functions of earth's structure and place in the solar system.
Solar Energy	(1)	1. Solar energy is the primary source of energy for all biogeochemical cycles and other processes occurring on earth.
Secondary Energy Sources	(2)	2. Nuclear processes, geothermal sources, tidal movements, and gravity are secondary sources.
Earth's Energy Balance	(3)	3. The earth is in a state of overall energy balance, absorbing energy from the sun and radiating it into space.
Weather & Climate, Water Cycle, Biosphere Oceanography	(4)	4. Absorption and distribution of solar energy results in the movement of global air masses, the hydrologic (water) cycle, and ocean currents, giving rise to earth's prevailing weather and climates and providing conditions essential to life on earth.
		B. Earth's environment is a complex, interrelated, interactive, dynamic, constantly changing macrosystem called the ecosphere.
5 Decomposition, Erosion Habitat, Interaction, Interdependence, & Niche	(5)	1. The ecosphere is composed of a mosaic of interacting systems called ecosystems.
Adaptations, Change, Camouflage, Continental Drift, Diversity, Evolution, & Succession	(6)	2. The ecosphere has and is undergoing continuous change.
Biogeochemical Cycles, Energy Transfer, Food Webs, Photosynthesis, Renewable Resources, & Respiration	(7)	3. Energy and materials required for life pass into or are found in the ecosphere, and are components of each ecosystem.
Birth-Death Rate, Carrying Capacity, Homeostasis, Human Population Growth, Limiting Factors, & Population	(8)	4. Each ecosystem of the ecosphere contains a number of species populations, the size and stability of which vary, depending on biotic and abiotic changes in the system.

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Outline based on 1976 Federal Interagency Committee on Education Report.

Concept

Principle

II. Fundamental Principles Dealing with Humans as Ecosystem Components

A. Humans use ecosystems to satisfy basic needs and desires.

Biological Needs of Humans

(9)

1. Basic biological needs that must be met for humans to live and grow include habitable climate, energy, materials, rest and exercise, other humans for reproduction, and protection against environmental stress.

Psychological Needs of Humans

(10)

2. Humans cannot grow and completely develop mentally unless essential psychological and social needs and desires are met. These include security, love, esteem, self-fulfillment, social interaction, health, comfort, material goods, and religious experiences.

Use of Materials and Energy, Cultural Attitudes, Values, & Pollution

(11)

3. Each human culture has its own perceived needs and desires that make different demands and impacts on ecosystems. In times of stress many of these needs and desires can be adjusted.

B. Humans are an all-pervasive species in the ecosphere and thus exert a special ecological dominance.

Human's Ecological Domination of Earth

(12)

1. Human domination results from various factors which include...large intellectual capacity, adaptation to a wide range of environmental conditions, large population size, specialization in diversity of labor.

Effects of Humans on Ecosystems Social Interaction

(13)

2. Human tendencies to form and function in social and corporate groups and institutions promote development of human habitats that create unique concentrated demands on ecosystems and further increase human effects on ecosystems.

Human Population Growth and Technology and its Effects on Ecosystems

(14)

3. Recent rapid increases in human populations and technological capabilities have accelerated ecosystem changes until some are potentially irreversible.

Effects of Values on Human Behavior-Impacts on Ecosystems

(15)

4. Human aesthetic, ethical, moral, and spiritual values may reinforce or conflict with harmonious relationships within ecosystems.

C. Ecosystems affect humans

Built Environments are Influenced by Ecosystems

(16)

1. Humans and all their products function in an ecosystem framework.

<u>Concept</u>	<u>Principle</u>	
Ecosphere Changes Due to Human Population and Technology Nonrenewable Resources	(17)	2. Ecosphere changes due to increasing human population and technology have both short and long term effects.
Physical and Chemical Components of Ecosystems: Effects on Humans	(18)	3. The built environment and its psychological miliea have a powerful effect on humans. Information transfer by verbal communication and learned behavior operates on humans in a parallel and synergistic manner in much the same way as do physical and chemical components of ecosystems.
		D. Complex interactions among humans and other ecosystem components occur continuously.
Human Needs and Values: Effects on Ecosystems	(19)	1. Humans' perceptions of their needs, their impacts on ecosystems, and ecosystem impacts on them, reflect the cultural and individual values, goals, skills, insights, and capabilities of the individuals, groups, institutions, and nations involved.
Interrelationships	(20)	2. Relationships among components of ecosystems are reciprocal, ranging from mutually beneficial to unidirectionally destructive.
Feedback Mechanisms of Ecosystems	(21)	3. Feedback mechanisms of different kinds, for xample physical, chemical, social, behavioral, ranging from rudimentary to highly sophisticated, govern relationships among and within components of ecosystems.
Synergistic Effects	(22)	4. Human activities often have synergistic effects on ecosystems and visa versa.
Appreciating Ecosystems and their Components, Appreciating the Environment, Human Impacts on Ecosystems	(23)	5. Human activities affect ecosystem maintenance and management.
		III. Methods for Harmonizing Human Activities with Ecosystem Processes to Achieve Environmental Quality
		A. Methods by which human activities, local through global, are harmonized with ecosystem processes are complex, and outcomes are not always predictable.
Barriers to Ecosystem Harmony	(24)	1. Barriers to harmony include...effects of ecosystem changes, lack of knowledge needed to make environmental predictions, and lack of uniformly dependable social-political cooperation.

<u>Concept</u>	<u>Principle</u>	
Methods to Attain Harmony	(25)	2. Harmony can be pursued through...education, environmental art, citizen action, voluntary and formal policies, economic and social incentives, and enforcement of policies.
Methods to Promote Harmony	(26)	3. Institutions, processes, and attitudes for promoting harmony include...education and communication, ethical, moral and other influences, science and technology, civic and social institutions, government and political processes, industry and commerce.
		B. Basic procedure for harmonizing human activities with ecosystem processes can be described as a series of steps.
Investigation of Ecosystems	(27)	1. Investigate ecosystem processes and components, including the effects of human activities on ecosystems and the influences of ecosystems on human functioning.
∞ Importance of Ecosystem Processes and Changes	(28)	2. Recognize the importance of ecosystem processes and the significance of ecosystem changes.
Causes of Ecosystem Changes and their Consequences	(29)	3. Identify the causes of ecosystem changes and their consequences.
Action Strategies	(30)	4. Develop alternative action strategies to maintain and enhance beneficial ecosystem changes and to reduce detrimental changes, with special attention to irreversible changes and to long range versus short range commitments of resources.
Analyzing and Evaluating Alternative Action Strategies	(31)	5. Analyze and evaluate alternative action strategies within a broad array of environmental, social, and economic criteria, recognizing that criteria will differ according to circumstances of politics, geography, scale, time and society.
Adopting Action	(32)	6. Select among alternative action strategies, and adopt a policy which can be implemented at all levels, individual through global.
Implementing Action Strategies	(33)	7. Decide on and complete actions to implement the policy.
Monitoring and Evaluating Policies	(34)	8. Monitor and evaluate affects of the implemented policy.
Monitoring Feedback and Adjusting Actions as Necessary	(35)	9. Feeding information gained in Principle 34 back through Principle 27 to adjust actions to changing data bases, requirements, conditions, and perceptions.

Where to Obtain the Environmental Education Resources used in this Handbook:

The CLASS Project

Margaret Rosenberry and NWF staff. Published by and available from National Wildlife Federation, 1412 Sixteenth Street, Washington, D.C. 20036, 1982.

Investigating and Evaluating Environmental Issues and Actions Skill Development Modules.

Harold R. Hungerford, Ralph A. Litherland, R. Ben Peyton, John M. Ramsey, Audrey N. Tomera, and Trudi L. Volk. Champaign, IL. Stipes Publishing Company, 1985

Living Lightly in the City for Grades K-3 and 4-6.

Maura O'Conner, 1985

Living Lightly on the Planet for Grades 7-9 and 10-12

Maura O'Conner and Kathy McGlaufflin, 1982, 1984. Published and available from the Schiltz Audubon Center, 1111 East Brown Deer Road Milwaukee, WI, 53217

Nature with Children of All Ages

Edith Sisson. Published by Englewood Cliffs of NJ in 1982. Available through bookstores.

Project Learning Tree: Supplemental Activity Guide for Grades K-6 and 7-12.

Western Regional Environmental Education Council and the American Forest Institute. Published by the American Forest Institute, Washington D.C. in 1975. Available only through a six hour workshop offered throughout the state. Contact Project Learning Tree, Wisconsin DNR, P.O. Box 7921, Madison, WI 53707.

Project WILD: Elementary and Secondary Guides.

Western Regional Environmental Education Council. Published in 1985. Available only through co-sponsoring states at six hour teacher workshops. Contact Project WILD, Wisconsin DNR, P.O. Box 7921, Madison, WI 53707.

Sharing Nature With Children

Joseph Bharat Cornell. Published by Ananda Publications of Nevada City, CA in 1979. Available through bookstores.

A Guide to Curriculum Planning in Environmental Education

Wisconsin Department of Public Instruction. Published by and available from the Wisconsin Department of Public Instruction, 125 South Webster Street, P.O. Box 7841, Madison, WI 53707

Resources Used by Each Grade Level

K-3

**Project Learning Tree
Project WILD
Sharing Nature with Children
Nature with Children of All Ages
Living Lightly in the City**

4-6

**Project Learning Tree
Project WILD
Sharing Nature with Children
Living Lightly in the City**

7-9 and 10-12

**Project Learning Tree
Project WILD
The CLASS Project
Investigating and Evaluating Environmental Issues and Action
Skill Development Modules
Living Lightly on the Planet**

Environmental Activities Section

Principle #1

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City	Mother Earth, Father Sun Celebration p. 106 Energy All Around Me (K-1) p. 126 S Is for Sunshine p. 128	

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
Bending Beans p. 32 S Is for Sunshine p. 128 *	Bending Beans p. 32 Mother Earth, Father Sun Celebration p. 106 Energy All Around Me (K-1) p. 126 S Is for Sunshine p. 128 *	Mother Earth, Father Sun Celebration p. 106

Principle #2

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)	Patterns in Nature p. 14	
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Content Areas		
Language Arts	Science	Social Studies
	Patterns in Nature p. 14	

Principle #3

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Content Areas		
Language Arts	Science	Social Studies
Water In My House p. 99	Water In My House p. 99 Wind Dancing, Sun Heating (1-3) p. 132	Water In My House p. 99

Principle #4

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children	Recipe for a Forest p. 54	
Nature With Children of All Ages		
Living Lightly in the City	Energy All Around Me (K-1) p. 126 S Is for Sunshine p. 128	

Concept: Weather & climate
 Water Cycle
 Biosphere
 Oceanography

Content Areas		
Language Arts	Science	Social Studies
	Signs of Fall p. 21 Water You Know? p. 94	Water You Know? p. 94
Recipe for a Forest p. 54		Recipe for a Forest p. 54
	Activities with Water p. 127-130	
Heating, Lighting and Moving (2-3) p. 126 S Is for Sunshine p. 128	Energy All Around Me (K-1) p. 126 Heating, Lighting and Moving (2-3) p. 126 S Is for Sunshine p. 128	

Principle #5

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

<p>Project Learning Tree (Elementary)</p>	<p>Leaf Prints p. 15 Tree Shapes, Natural and Unnatural p. 17 Large Leaves p. 111</p>	
<p>Project WILD (Elementary)</p>	<p>What Bear Goes Where? p. 79 Seeing is Believing p. 99</p>	
<p>Sharing Nature With Children</p>	<p>Meet a Tree p. 26 Recipe for a Forest p. 54 Blind Trail p. 29 Duplication p. 44</p>	<p>Meet a Tree p. 26 Blind Trail p. 29</p>
<p>Nature With Children of All Ages</p>	<p>By the Sea I p. 99-108 By the Sea II p. 109-126</p>	
<p>Living Lightly in the City</p>	<p>S Is for Sunshine p. 128</p>	

Concept: Interaction
 Interdependence
 Habitat
 Niche
 Decomposition
 Erosion

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
<p>The "Touchy-Feely" Box p. 18 Living Labels p. 22 Plant Personification p. 25 An Environmental Exchange Box p. 131</p>	<p>Leaf Hunt Relay p. 11 Leaf Prints p. 15 Signs of Fall p. 24 The "Touchy-Feely" Box p. 18</p> <p style="text-align: center;">*</p>	<p>Holding Power p. 47 Long Range-Short Range p. 78 Water You Know? p. 94 An Environmental Exchange Box p. 131</p>
<p>Grasshopper Gravity p. 15 Wildlife is Everywhere! p. 19 Habitracks p. 35 Graphanimal p. 81</p> <p style="text-align: center;">*</p>	<p>Grasshopper Gravity p. 15 Wildlife is Everywhere! p. 19 Habitracks p. 35 What Bear Goes Where? p. 79</p> <p style="text-align: center;">*</p>	<p>Grasshopper Gravity p. 15 Habitracks p. 35 Polar Bears in Phoenix? p. 103</p>
<p>Meet a Tree p. 26 Blind Trail p. 29 Duplication p. 44 Recipe for a Forest p. 54</p> <p style="text-align: center;">*</p>	<p>Meet a Tree p. 26 Blind Trail p. 29 Duplication p. 44 Plant Succession Crawl p. 60</p> <p style="text-align: center;">*</p>	<p>Meet a Tree p. 26 Blind Trail p. 29</p>
<p>By the Sea I p. 99-108 By the Sea II p. 109-126</p>	<p>By the Sea I p. 99-108 By the Sea II p. 109-126 Activities with Freshwater Life p. 132 Ecology Activities p. 162-171</p>	
<p>Mini-Neighbors p. 70 Water In My House p. 99 S Is for Sunshine p. 128 Going Nature's Way? p. 146</p>	<p>Small Trees, Tall Trees p. 37 Seeds On the Go! p. 46 Flying Feathers Hunt p. 61 Nut Gatherers p. 67</p> <p style="text-align: center;">*</p>	<p>Small Trees, Tall Trees p. 37 Flying Feathers Hunt p. 61 Water In My House p. 99 Where Does It Come From? p. 100</p> <p style="text-align: center;">*</p>

Principle #6

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>	<p>Large Leaves p. 111</p>	
<p>Project WILD (Elementary)</p>	<p>Color Crazy p. 11 What Bear Goes Where? p. 79</p>	
<p>Sharing Nature With Children</p>	<p>Role Playing p. 31 Unnature Trail p. 40 Pyramid of Life p. 52 Webbing p. 56 *</p>	
<p>Nature With Children of All Ages</p>	<p>Introductory Tree Activity p. 15 Bark Rubbings p. 22 Drawings and Painting of Trees p. 23 Finding Shapes in Plants p. 33</p>	
<p>Living Lightly in the City</p>	<p>Growing Together (1-3) p. 39 Growing Together Calendar (1-3) p. 42 For the Birds p. 63 Geese Mobiles p. 65</p>	

Concept: Continental drift
 Change
 Succession
 Evolution
 Diversity
 Adaptations
 Camouflage

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
<p>An Environmental Exchange Box p. 131</p>	<p>Holding Power p. 47 Tree Cookies p. 60 School Yard Safari p. 85 Large Leaves p. 111</p> <p>*</p>	<p>Holding Power p. 47 Tree Cookies p. 60 An Environmental Exchange Box p. 131</p>
<p>Color Crazy p. 11 Surprise Terrarium p. 101</p>	<p>Color Crazy p. 11 What Bear Goes Where? p. 79 Forest in a Jar p. 91 Surprise Terrarium p. 101</p>	
<p>Role Playing p. 31 Pyramid of Life p. 52 Webbing p. 56 Scavenger Hunt p. 76</p> <p>*</p>	<p>Unnature Trail p. 40 Caterpillar Walk p. 42 And Back Home p. 43 Pyramid of Life p. 52</p> <p>*</p>	<p>Role Playing p. 31</p>
<p>Introductory Tree Activity p. 15 Role Playing the Lives of Trees p. 23 Writing About Trees p. 25,26</p>	<p>Introductory Tree Activity p. 15 Matching Leaves p. 19 Leaf Sorting p. 19 How Many Leaves On a Tree? p. 19</p> <p>*</p>	<p>Winter and People p. 155</p>
<p>Growing Together (1-3) p. 39 Snow Stories p. 68 Mini-Neighbors p. 70 Small Fliers (K-2) p. 73</p>	<p>Growing Together (1-3) p. 39 Growing Together Calendar (1-3) p. 42 Seeds On the Go! p. 46 Flying Feathers Hunt p. 61</p> <p>*</p>	<p>Flying Feathers Hunt p. 61 Geese Mobiles p. 65</p>

Principle #7

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>	<p>Large Leaves p. 111</p>	<p>Invent-a-Game p. 41 Did You Ever Eat a Pine Tree? p. 50</p>
<p>Project WILD (Elementary)</p>		<p>What's for Dinner p. 49</p>
<p>Sharing Nature With Children</p>	<p>Pyramid of Life p. 52 Recipe for a Forest p. 54 Webbing p. 56 Scavenger Hunt p. 76</p>	<p>Heartbeat of a Tree p. 22</p>
<p>Nature With Children of All Ages</p>	<p>Looking Closely at Plants p. 31</p>	
<p>Living Lightly in the City</p>	<p>The Green Scene p. 34 Geese Mobiles p. 65 Mother Earth, Father Sun Celebration p. 106 Energy All Around Me (K-1) p. 126 *</p>	

Concept: Energy transfer
 Photosynthesis
 Respiration
 Biogeochemical cycles
 Food webs
 Renewable resources

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
	Holding Power p. 47 Did You Ever Eat a Pine Tree? p. 50 Long Range-Short Range p. 78 A Tree From an Acorn Grows p. 83 *	The Second Little Pig p. 30 Holding Power p. 47 Did You Ever Eat a Pine Tree? p. 50 Long Range-Short Range p. 78 *
What's for Dinner? p. 49 Owl Pellets p. 125		
Pyramid of Life p. 52 Recipe for a Forest p. 54 Webbing p. 56 Scavenger Hunt p. 76	Heartbeat of a Tree p. 22 Pyramid of Life p. 52 Recipe for a Forest p. 54 Webbing p. 56 *	
	Role Playing the Lives of Trees p. 23 Historical Uses of Trees p. 25 Tree Uses Today p. 25 Watching the Shepherds Clock p. 30 *	Historical Uses of Trees p. 25 Tree Uses Today p. 25
Bending Beans p. 32 T.H.M. (Trees Help Me) p. 45 Mini-Neighbors p. 70 Water in My House p. 99 *	Bending Beans p. 32 The Green Scene p. 34 T.H.M. (Trees Help Me) p. 45 Seeds On the Go! p. 46 *	Small Trees, Tali Trees p. 37 Flying Feathers Hunt p. 61 Geese Mobiles p. 65 Food for Me p. 98 *

Concept: Population
 Birth/Death rate
 Human population growth
 Carrying Capacity
 Homeostasis
 Limiting Factors

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
<p>An Environmental Exchange Box p. 131</p>	<p>A Tree From an Acorn Grows p. 83 School Yard Safari p. 85</p>	<p>An Environmental Exchange Box p. 131</p>
<p>Wildlife Is Everywhere! p. 19 Beautiful Basics p. 29 Everybody Needs a Home p. 31 Quick Frozen Critters p. 105 *</p>	<p>Ants on a Twig p. 9 Wildlife Is Everywhere! p. 19 Beautiful Basics p. 29 Everybody Need a Home p. 31 *</p>	<p>Classroom Carrying Capacity p. 109 How Many Bears Can Live in This Forest? p. 115</p>
<p>Pyramid of Life p. 52 What Animal Am I? p. 69 Noah's Ark p. 81</p>	<p>Pyramid of Life p. 52 Predator-Prey p. 59 What Animal Am I? p. 69 Noah's Ark p. 81</p>	<p>Noah's Ark p. 81</p>
<p>Snow Stories p. 68 Small Fliers p. 73 ABC's of Needs p. 97</p>	<p>Flying Feathers Hunt p. 61 For the Birds p. 63 Geese Mobiles p. 65 Nut Gatherers p. 67 *</p>	<p>Flying Feathers Hunt p. 61 Geese Mobiles p. 65 ABC's of Needs p. 97</p>

Principle #9

Environmental
Education
Resources

Content Areas

Art

Health

<p>Project Learning Tree (Elementary)</p>	<p>The Artist as a Recorder of Reality p. 62</p>	
<p>Project WILD (Elementary)</p>	<p>Everybody Needs a Home p. 31 What's That, Habitat? p. 39</p>	
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>	<p>City Spaces, Special Places p. 17 Growing Together p. 39 Growing Together Calendar (1-3) p. 42 Energy All Around Me (K-1) p. 126</p>	

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
<p>The Artist as a Recorder of Reality p. 62</p>		<p>The Second Little Pig p. 30 Maple Mallets and Ash Bats p. 35 Can You Dig It? p. 92</p>
<p>Everybody Needs a Home p. 31 What's That, Habitat? p. 39</p>	<p>Everybody Needs a Home p. 31 What's That, Habitat? p. 39</p>	<p>What's That, Habitat? p. 39</p>
		<p>Grains and People p. 51</p>
<p>City Spaces, Special Places p. 17 Growing Together (1-3) p. 39 T.H.M. (Trees Help Me) p. 45 ABC's of Needs p. 97</p> <p>•</p>	<p>Growing Together (1-3) p. 39 Growing Together Calendar (1-3) p. 42 T.H.M. (Trees Help Me) p. 45 ABC's of Needs p. 97</p> <p>•</p>	<p>City Spaces, Special Places p. 17 ABC's of Needs p. 97 Where Does It Come From? p. 100 Community Connections (2-3) p. 102</p> <p>•</p>

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>	<p>Folklore p. 57 The Artist as a Recorder of Reality p. 62</p>	
<p>Project WILD (Elementary)</p>		
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>	<p>City Spaces, Special Places p. 17</p>	

Content Areas		
Language Arts	Science	Social Studies
<p>Folklore p. 57 The Artist as a Recorder of Reality p. 62</p>		<p>Folklore p. 57</p>
<p>City Spaces, Special Places p. 17 My Street (2-3) p. 18 ABC's of Needs p. 97 Community Connections (2-3) p. 102</p>	<p>ABC's of Needs p. 97</p>	<p>City Spaces, Special Places p. 17 My Street (2-3) p. 18 ABC's of Needs p. 97 Community Connections (2-3) p. 102</p>

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>	<p>Natural Art p. 44 Colors from Nature p. 46 Folklore p. 57 The Artist as a Recorder of Reality p. 61</p>	<p>Invent-a-Game p. 41</p>
<p>Project WILD (Elementary)</p>	<p>Museum Search For Wildlife p. 65 Make a Coat! p. 75</p>	
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>	<p>Plant Crafts p. 36,37,38 Seed Crafts p. 48,49,50,51</p>	
<p>Living Lightly in the City</p>	<p>Energy Savers p. 134 Conservation Puppet Pairs p. 156</p>	

Concept: Use of materials & energy
 Pollution
 Cultural attitudes
 Values

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
Plant Personification p. 25 Natural Art p. 44 Folklore p. 57 The Artist as a Recorder of Reality p. 62 *	Plant Personification p. 25 Colors From Nature p. 46	The Second Little Pig p. 30 Maple Mallets and Ash Bais p. 35 Folklore p. 57 Can You Dig It? p. 92 *
Museum Search For Wildlife p. 65 Make a Coat! p. 75 Wildwork p. 129	Make a Coat! p. 75 Wildwork p. 129	Museum Search For Wildlife p. 65 Make a Coat! p. 75 Wildwork p. 129
Survival Hike p. 116		Survival Hike p. 116
		Plants and People p. 38,39 Grains and People p. 51
T.H.M. (Trees Help Me) p. 45 Community Connections (2-3) p. 102 Heating, Lighting and Moving (2-3) p. 126 Going Nature's Way? p. 146 *	T.H.M. (Trees Help Me) p. 45 Where Does It Come From? p. 100 Heating, Lighting and Moving (2-3) p. 132 Wind Dancing, Sun Moving (1-3) p. 132 *	Where Does It Come From? p. 100 Community Connections (2-3) p. 102 An Energy Allowance p. 131 Energy Savers (1-3) p. 134 *

Principle #12


Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City 		

Content Areas		
Language Arts	Science	Social Studies
<p>Plant Personification p. 25 Interview a Board Worker p. 34 An Environmental Exchange Box p. 31</p>	<p>Plant Personification p. 25</p>	<p>Woodwork p. 32 Interview a Board Worker p. 34 An Environmental Exchange Box p. 31</p>
<p>Saturday Morning Wildlife Watching p. 165 Too Close for Comfort p. 185</p>	<p>Saturday Morning Wildlife Watching p. 165 Too Close for Comfort p. 185</p>	<p>Saturday Morning Wildlife Watching p. 165 Too Close for Comfort p. 185</p>
<p>Mammals and People Activities p. 97</p>	<p>Mammals and People Activities p. 97</p>	<p>Mammals and People Activities p. 97</p>
<p>Community Connections (2-3) p. 102</p>	<p>Where Does It Come From? p. 100</p>	<p>Where Does It Come From? p. 100 Community Connections (2-3) p. 102 An Energy Allowance p. 131</p>

Principle #13

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>		
<p>Project WILD (Elementary)</p>	<p>What's Wild? p. 1</p>	
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>		

Concept: Effects of humans on ecosystems
Social interactions

Content Areas		
Language Arts	Science	Social Studies
		Another Way of Seeing p. 150
What's Wild? p. 1 Too Close for Comfort p. 185	What's Wild? p. 1 Environmental Barometer p. 73 Too Close for Comfort p. 185	Environmental Barometer p. 73 Too Close for Comfort p. 185
My Street (2-3) p. 18 C is for Caring p. 20 Community Connections (2-3) p. 102	Small Trees, Tall Trees (K-2) p. 37	My Street (2-3) p. 18 C is for Carin p. 20 Small Trees, Tall Trees (K-2) p. 37 Community Connections (2-3) p. 102

Principle #14

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Concept: Human population growth & technology:
its effects on ecosystems

Content Areas

Language Arts

Science

Social Studies

Language Arts	Science	Social Studies

Principle #15

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)	The Artist as a Recorder of Reality p. 62	An Individual Experiment p. 8
Project WILD (Elementary)	Ethi-Thinking p. 209	
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City	A Magnificent Walk p. 16 Energy Savers (1-3) p. 132 Conservation Puppet Pairs p. 156 I Can Do It! (2-3) p. 158 *	

Concept: Effects of values on human behavior: its impact on ecosystems

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
Plant Personification p. 25 The Artist as a Recorder of Reality p. 62	An Individual Experiment p. 8 Plant Personification p. 25	Another Way of Seeing p. 150
Ethi-Thinking p. 209	Ethi-Thinking p. 209	Ethi-Thinking p. 209
Survival Hike p. 116		Survival Hike p. 116
	Tree Uses Today p. 25	Historical Uses of Trees p. 25 Tree Uses Today p. 25 Natural History in an Art Museum p. 155 Winter Poems p. 158
A Is for Adventure p. 13 T.H.M. (Trees Help Me) p. 45 Making Little Monsters p. 151 Conservation Puppet Pairs p. 156 *	A Magnificent Walk p. 16 T.H.M. (Trees Help Me) p. 45 Energy Savers (1-3) p. 134 It Ends Up At the Dump p. 150 *	A Is for Adventure p. 13 An Energy Allowance p. 131 Energy Savers (1-3) p. 134 It Ends Up At the Dump p. 150 *

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)	Musing on Music p. 69	
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Concept: Built environments are influenced by ecosystems

Content Areas		
Language Arts	Science	Social Studies
Musing on Music p. 69		Musing on Music p. 69 Can You Dig It? p. 92
	Tree Uses Today p. 25	Historical Uses of Trees p. 25 Tree Uses Today p. 25
	Mother Earth, May I? (1-3) p. 104	

Principle #17

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>		
<p>Project WILD (Elementary)</p>		
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>	<p>Finding Out About Fossil Fuels (2-3) p. 129 Energy Savers (1-3) p. 134 Conservation Puppet Pairs p. 156</p>	

Concept: Ecosphere changes due to human population & technology
Nonrenewable resources

Content Areas		
Language Arts	Science	Social Studies
		The Second Little Pig p. 30 Another Way of Seeing p. 150
Finding Out About Fossil Fuels (2-3) p. 129 Conservation Puppet Pairs p. 156	Finding Out About Fossil Fuels (2-3) p. 129 Wind Dancing, Sun Heating (1-3) p. 132 Energy Savers (1-3) p. 134 It Ends Up At the Dump (1-3) p. 150 *	Energy Savers (1-3) p. 134 It Ends Up At the Dump (1-3) p. 150

Principle #18

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Concept: Physical & chemical components of ecosystems: their effect on humans

Content Areas		
Language Arts	Science	Social Studies
Sounds in City and Forest p. 7		Sounds in City and Forest p. 7
Water In My House p. 99	Water In My House p. 99 Where Does It Come From? (1-3) p. 100	Water In My House p. 99 Where Does It Come From? (1-3) p. 100

Principle #19

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>	<p>Tree Shapes, Natural and Unnatural p. 17 Folklore p. 57</p>	
<p>Project WILD (Elementary)</p>		
<p>Sharing Nature With Children</p>	<p>Earth Windows p. 21</p>	<p>Earth Windows p. 21</p>
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>	<p>Conservation Puppet Pairs p. 156 I Can Do It! (2-3) p. 157</p>	

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
<p>Adopt-A-Tree p. 3 Folklore p. 57 An Environmental Exchange Box p. 131</p>	<p>Adopt-A-Tree p. 3</p>	<p>Folklore p. 57 How Big is Your Tree? p. 58 An Environmental Exchange Box p. 131</p>
<p>Earth Windows p. 21</p>	<p>Earth Windows p. 21</p>	<p>Earth Windows p. 21</p>
		<p>How Are Birds Helpful or Harmful To Us? p. 85 Endangered Species of Birds p. 85</p>
<p>ABC's of Needs p. 97 Water In My House p. 99 Conservation Puppet Pairs p. 156 I Can Do It! (2-3) p. 157</p>	<p>ABC's of Needs p. 97 Food for Me p. 98 Water In My House p. 99 Mother Earth, May I? (1-3) p. 104 *</p>	<p>ABC's of Needs p. 97 Food for Me p. 98 Water In My House p. 99 An Energy Allowance p. 131 *</p>

Principle #20

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)	Large Leaves p. 111	
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Content Areas		
Language Arts	Science	Social Studies
	Large Leaves p. 111	
Mini-Neighbors p. 70 ABC's of Needs p. 97 Community Connections (2-3) p. 102 Going Nature's Way? p. 146	Nut Gatherers (2-3) p. 66 Mini-Neighbors p. 70 ABC's of Needs p. 97 Going Nature's Way? p. 146	ABC's of Needs p. 97 Community Connections (2-3) p. 102 Going Nature's Way? p. 146

Principle #21

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Language Arts	Content Areas	Social Studies
	Science	

Principle #22

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Content Areas		
Language Arts	Science	Social Studies
	Long Range-Short Range p. 78	Long Range-Short Range p. 78

Environmental
Education
Resources

Content Areas

Art

Health

<p>Project Learning Tree (Elementary)</p>	<p>Classroom Conservation p. 144 Outdoor Manners Coloring Book p. 147</p>	<p>Expanding Sensory Perception p. 12</p>
<p>Project WILD (Elementary)</p>		
<p>Sharing Nature With Children</p>	<p>Earth Windows p. 21 Blind Walk p. 21 Meet a Tree p. 26 Blind Trail p. 29 *</p>	<p>Catch the Horse p. 86 Survival Hike p. 116</p>
<p>Nature With Children of All Ages</p>	<p>Introductory Tree Activity p. 15 Tree Activities p. 18,19,20 Easy Feeders for Young Children p. 81</p>	<p>Activities With Leaves p. 17</p>
<p>Living Lightly in the City</p>	<p>Picking Out Patterns p. 14 Energy Savers (1-3) p. 134 Conservation Puppet Pairs p. 156 I Can Do It! (2-3) p. 157</p>	

Concept: Human impacts on ecosystems
 Appreciation of the environment
 Appreciating ecosystems and their components

*-See Appendix for Additional Activities

Content Areas

Language Arts

Science

Social Studies

Language Arts	Science	Social Studies
Expanding Sensory Perception p. 12 The "Touchy-Feely" Box p. 18 Sounds Around p. 20 Living Labels p. 22 *	Expanding Sensory Perception p. 12 The "Touchy-Feely" Box p. 18 Sounds Around p. 20 Holding Power p. 47 *	Woodwork p. 32 Holding Power p. 47 Long Range-Short Range p. 78 Water You Know? p. 94 *
First Impressions p. 161 Can Do! p. 223	First Impressions p. 161 Playing Lightly On the Earth p. 211 Can Do! p. 223	Playing Lightly On the Earth p. 211 Can Do! p. 223
Earth Windows p. 21 Blind Walk p. 21 Micro-Hike p. 416 Sounds p. 38 *	Earth Windows p. 21 Blind Walk p. 21 Bird Calling p. 100 Calling Predators p. 104 *	
Introductory Tree Activity p. 15 Bird Poems p. 80	Introductory Tree Activity p. 15 Making Friends With a Tree p. 20 Activities With Invertebrates p. 58-64 Activities With Fish p. 68 *	How Are Birds Helpful or Harmful To Us? p. 85 Endangered Species p. 85
A Is for Adventure p. 13 T.H.M. (Trees Help Me) p. 45 Mini-Neighbors p. 70 Water In My House p. 99 *	T.H.M. (Trees Help Me) p. 45 Mini-Neighbors p. 70 Food for Me p. 98 Water In My House p. 99 *	A Is for Adventure p. 13 Picking Out Patterns p. 14 Food for Me p. 98 Water In My House p. 99 *

Principle #1:

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>		
<p>Project WILD (Elementary)</p>		
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>	<p>Conservation Puppet Pairs p. 156</p>	

Content Areas		
Language Arts	Science	Social Studies
Rickety Racket p. 155 Conservation Puppet Pairs p. 155	Conservation Puppet Pairs p. 156	Rickety Racket p. 155

Principle #25

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

<p>Project Learning Tree (Elementary)</p>	<p>The Closer You Look p. 10 Natural Art p. 41 Colors from Nature p. 46 Classroom Conservation p. 144 *</p>	
<p>Project WILD (Elementary)</p>	<p>Ethi-Thinking p. 209</p>	
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>	<p>Picking Out Patterns p. 14 Neighborhood Rainbows (K-1) p. 15 A Magnificent Walk p. 16 Energy Savers (1-3) p. 134 *</p>	

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
Plant Personification p. 25 Natural Art p. 44 The Artist as a Recorder of Reality p. 62	The Closer You Look p. 10 Plant Personification p. 25 Colors from Nature p. 46	Classroom Conservation p. 144
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A Is for Adventure p. 13 My Street (2-3) p. 18 C Is for Caring p. 20 If I Were A Tree p. 43 *	A Magnificent Walk p. 16 If I Were A Tree p. 43 Snow Stories p. 68 Energy Savers (1-3) p. 134 *	A Is for Adventure p. 13 Picking Out Patterns p. 14 Neighborhood Rainbows (K-1) p. 15 My Street (2-3) p. 18 *

Principle #26

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Content Areas

Language Arts

Science

Social Studies

Language Arts	Science	Social Studies

Principle #27

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>	<p>Outdoor Manners Coloring Book p. 147</p>	
<p>Project WILD (Elementary)</p>	<p>Learning to Look, Looking to See p. 181 Ethi-Thinking p. 209</p>	
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>	<p>The Green Scene p. 34 T.H.M. (Trees Help Me) p. 45 Energy All Around Me (K-1) p. 126 S Is for Sunshine p. 1281</p>	

*-See Appendix for Additional Activities

Content Areas		
Language Arts	Science	Social Studies
<p>Interview a Board Worker p. 34 Outdoor Manners Coloring Book p. 147</p>	<p>Holding Power p. 47 Long Range-Short Range p. 78</p>	<p>Outdoor Manners Coloring Book p. 147 Interview a Board Worker p. 34 Holding Power p. 47 Long Range-Short Range p. 78 *</p>
<p>Learning to Look, Looking to See p. 181 Too Close for Comfort p. 185 Ethi-Thinking p. 209 Can Do! p. 223</p>	<p>Learning to Look, Looking to See p. 181 Too Close for Comfort p. 185 Ethi-Thinking p. 209 Can Do! p. 223</p>	<p>Learning to Look, Looking to See p. 181 Too Close for Comfort p. 185 Ethi-Thinking p. 209 Can Do! p. 223</p>
		<p>Endangered Species of Birds p. 85</p>
<p>My Street (2-3) p. 18 Bending Beans p. 32 Mini-Neighbors p. 70 Water In My House p. 99 *</p>	<p>Bending Beans p. 32 The Green Scene p. 34 Small Trees, Tall Trees (K-2) p. 37 T.H.M. (Trees Help Me) p. 45 *</p>	<p>My Street (2-3) p. 18 Small Trees, Tall Trees (K-2) p. 37 T.H.M. (Trees Help Me) p. 45 Flying Feathers Hunt p. 61 *</p>

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>		
<p>Project WILD (Elementary)</p>		
<p>Sharing Nature With Children</p>	<p>Earth Windows p. 21</p>	<p>Earth Windows p. 21</p>
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>		

Concept: Importance of ecosystem processes & changes

Content Areas		
Language Arts	Science	Social Studies
Earth Windows p. 21	Earth Windows p. 21	Earth Windows p. 21
Going Nature's Way? p. 146	Going Nature's Way? p. 146	Going Nature's Way? p. 146

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City	Conservation Puppet Pairs p. 156	

Concept: Causes of ecosystem changes & their consequences

Content Areas		
Language Arts	Science	Social Studies
Can Do! p. 223	Can Do! p. 223	Can Do! p. 223
Rickety Racket p. 155 Conservation Puppet Pairs p. 156	It Ends Up At the Dump p. 150 Conservation Puppet Pairs p. 156	Class Trash p. 149 It Ends Up At the Dump p. 150 Rickety Racket p. 155

Principle #30

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)	Outdoor Manners Coloring Book p. 147	
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Learning in the City	Energy Savers (1-3) p. 134 I Can Do It! (2-3) p. 157	

Content Areas		
Language Arts	Science	Social Studies
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Can Do! p. 223	Can Do! p. 223	Can Do! p. 223
Making Litter Monsters p. 151	Energy Savers (1-3) p. 134 It Ends Up At the Dump p. 150 Making Litter Monsters p. 151 Green It Up! p. 153 *	Energy Savers (1-3) p. 134 Class Trash p. 149 It Ends Up At the Dump p. 150 Makin' Litter Monsters p. 151 *

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Concept: Analyzing & evaluating alternative action strategies

Content Areas

Language Arts

Science

Social Studies

Language Arts	Science	Social Studies

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)		
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Content Areas		
Language Arts	Science	Social Studies

Principle #33

Grades K - 3

**Environmental
Education
Resources**

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)	Classroom Conservation p. 144	
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Language Arts	Content Areas	
Science	Social Studies	
		Classroom Conservation p. 144

Principle #34

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
Project Learning Tree (Elementary)	Classroom Conservation p. 144	
Project WILD (Elementary)		
Sharing Nature With Children		
Nature With Children of All Ages		
Living Lightly in the City		

Content Areas		
Language Arts	Science	Social Studies
		Classroom Conservation p. 144

Principle #35

Grades K - 3

Environmental
Education
Resources

Content Areas

Art

Health

	Art	Health
<p>Project Learning Tree (Elementary)</p>		
<p>Project WILD (Elementary)</p>		
<p>Sharing Nature With Children</p>		
<p>Nature With Children of All Ages</p>		
<p>Living Lightly in the City</p>		

Concept: Monitoring feedback & adjusting actions
as necessary

Content Areas

Language Arts

Science

Social Studies

Language Arts	Science	Social Studies

Grades K-3 Appendix

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What Animal am I?		69				
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Additional E.E. Curriculum Resources

Acclimatizing. 1972.

Acclimatization. 1974.

Sunship Earth. 1979.

Steve Van Matre. Published by the American Camping Association in Martinsville, IN 46151 and the Institute for Earth Education, P.O. Box 288, Warrenville, IL 60555.

Van Matre first popularized the sensory approach to environmental study--immersing people in a swamp, blindfolding them through the forest, and digging their hands into soil. By experiencing the environment with all of our senses, we will come to know, and appreciate it better. Acclimatizing and Acclimatization describes short activities and adventures to discover the outdoors. Sunship Earth is a carefully structured five-day residential outdoor program. The magic and discovery is still there, but with an emphasis on the larger picture of ecology and human interaction.

Biological Science: An Ecological Approach. Fourth ed. 1978.

Biological Sciences Curriculum Study (BSCS), Rand McNally, P.O. Box 930, Boulder, CO. An excellent secondary biology text that emphasizes ecology throughout. Picked as one of the best biology textbooks used in the nation's high schools. Eighteen books were studied by a group commissioned by People for the American Way. This was one of the three excellent textbooks which they described as "doing an excellent job of covering evolutionary theory and the field of biology."

Central Wisconsin Environmental Resource Manual. 1981

Central Wisconsin Environmental Station (CWES), University of Wisconsin, Stevens Point, National Science Foundation Special Training Project in Ecology and Environmental Education.

Provides listings of community resources that can be used as field trips or speakers. Three volumes cover resources in the following counties: Adams, Wood, Columbia, Kewaunee, Green Lake, Sauk, Waushara, Portage, Marathon, Langlade, Lincoln, Waupaca, Clark, Oneida, Shawano, Taylor, and Winnebago. Resources have been located and analyzed and are presented in an organized format in order to provide a practical, relevant, and ready reference that can facilitate resource use by teachers at all grade levels. Focuses specifically on resource use for environmental education.

Connections: A Curriculum in Appropriate Technology for Fifth and Sixth Grades. 1980.

Written by and available from the National Center for Appropriate Technology. Box 3838, Butte, Montana 59701.

This activity guide for elementary teachers provides exciting ideas and information in solar energy, water conservation, transportation, recycling, nutrition, and gardening--a good beginning for understanding many current issues.

Conserving Soil.

U.S.D.A. Soil Conservation Service. Published and distributed in 19___. Currently available from the National Association of Conservation Districts Service Dept., P.O. Box 855, League City, TX 77573-9989.

Color transparencies, ditto masters, activities, and background information help teachers convey information about soil and its wise use.

The Cousteau Almanac: An Inventory of Life On Our Water Planet.

Jacques Ives Cousteau and Cousteau Staff. Published by Doubleday Company in New York, 1981. Available through bookstores.

The Almanac is a treasure of information on environmental issues around the world in the 1980's. Articles are well written, well documented, and arranged in a unique order. Scattered throughout are vignettes of people and organizations who work toward the solutions to environmental problems, usually on a local level, and usually successfully. The last section provides information on organizing around an issue and taking action.

Environmental Science: An Introduction. Second edition.

Living in the Environment. Fourth edition.

G. Tyler Miller. Published by Wadsworth Publishing Company in Belmont, CA. 1986. Available as text.

Both texts fairly represent the variety of perspectives that color environmental issues. Environmental Science covers the issues in less depth than Living in the Environment. Written for college students.

Environmental Science: Managing the Environment. Second edition.

P. Walton Purdom and Stanley H. Anderson. Merrill Publishing Co. 1983.

Textbook designed to create a threefold understanding of: (1) all facets of the environment that affect ecosystems and human life; (2) the impacts of human activities on various aspects of environmental quality; and (3) the environmental, economic, and cultural factors that shape urban development.

Humanizing Environmental Education: A Guide for Leading Nature and Human Nature Activities.

Clifford Knapp and Joel Goodman. Published by the American Camping Association in Martinsville, IN, 1981. Available from the American Camping Association, Martinsville, IN, 46151-7902.

Introduction to Environmental Studies.

Jonathan Turk and W.B. Saunders. 1980.

This secondary-college text is divided into the following study units:

- I. Introduction and Social Background
- II. The Biological Background
- III. Human Population
- IV. Resources and Energy
- V. Rural Land Use
- VI. Pollution

This book was written to provide environmental education to a wide variety of people. It gives an overview of various social, economic, technical, and political issues. The problems of ecological disruptions, growth of human population, land use, energy, nuclear power, food supplies, pesticides, air and water pollution, solid waste, and noise are covered. Specific features of this text include: case histories, take-home experiments, problems and questions for class discussions, chapter summaries, glossary, and use of the metric system.

Investigating Your Environment. June, 1980.

U.S. Forest Service-U.S. Dept. of Agriculture, U.S. Government Printing Office.

A set of separate activities for secondary teachers designed for investigating different components of the environment. Techniques such as collecting observable data, making inferences, setting up investigations to check inferences, communicating feelings and awareness are used in these activities. Many of the investigations are wholly or partially conducted outside and all stress active participation by the learner. Some of the activities cover such topics as water, wildlife, soils, forestry, land use, and human communities.

Project Creation. Concern Regarding the Environment and Technology in our Nation/Neighborhood.

Title IV, ESEA, Developed at La Salle-Peru Township High School, District #120, La Salie, IL. 1978.
Available through: The Environment and Technology Project, 1633 N. Burling, Chicago, IL 60614. Telephone: (312) 280-8163.

A series of sixteen environmental and technology units that cover the major concepts of energy, land use, urban management, and pollution. "The overall goal of CREATION is the development of students as citizens who will hold a strong environmental ethic." Five universal objectives appear in this curriculum as follows: interdependence, impact, maintenance, quality of life, and improvement.

Teaching Environmental Education.

Harold Hungerford and R. Ben Payton. 1976. Published by J. Weston Walch, Portland, ME 04104.

A source of information for middle and secondary school teachers who are responsible for curriculum development and/or instruction in this field. Provides components of environmental literacy, an introduction to ecological foundations, analysis of an environmental issue, suggestion for environmental action training, and a summary of selected environmental education programs for possible use. Suggested activities are provided to guide the teacher in developing and implementing environmental education strategies.

Thinking Globally and Acting Locally: Environmental Education Teaching Activities.

Lori Mann and William B. Stapp. Published by and available from ERIC/SMEAC, Ohio State University, 1200 Chambers Road, Third Floor, Columbus, OH 43212. 1982.

Environmental issues are larger than any one municipal boundary and are tightly intertwined with issues of culture, economics, politics, history, and science. This manual provides activities for upper elementary through high school students that help distill the global consequences of local issues and actions.

Understanding the Game of the Environment: An Illustrated Guide to Understanding Ecological Principles.

David R. Houston. Published by and available from the US Forest Service, US Dept. of Agriculture, Washington D.C. as the Agricultural Information Bulletin No. 426. 1979.

Here is one of the few ecological texts published for high school students. Major ecological principles are summarized and organized into a game, complete with players, rules, boundaries, etc. Detailed illustrations provide the basis for in-depth discussions.

The Wholeschool Book: Teaching and Learning in the 20th Century.

Bob Samples, Cheryl Charles, and Dick Barnhart. Published by Addison-Wesley Publishing Company, Reading, MA. 1977. Available at bookstores.

This book offers a humanistic, people-oriented philosophy of education complete with suggestions for questions, discussions, and activities that encourage students to participate in the learning process.

Wildlife Habitat Conservation Teacher's PAC Series.

Environmental education teaching aids available from the National Institute for Urban Wildlife. Write: National Institute for Urban Wildlife, 10921 Trotting Ridge Way, Columbia, MD 21044.

The PAC's were originally developed by the U.S. Fish and Wildlife Service and targeted at the fourth through seventh grade level student. The contents of each teacher's PAC component are: poster (1), teaching overview (1), lesson plans (3), student centered pages (2-6), and a folder. The following PAC's are available: Urban Areas; Freshwater Marshes; Beaches, Dunes and Barrier Islands; Wetland Conservation and Uses; Endangered Species; Migrating Birds; Hunting and Wildlife Conflicts; and Wildlife Conflicts.

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