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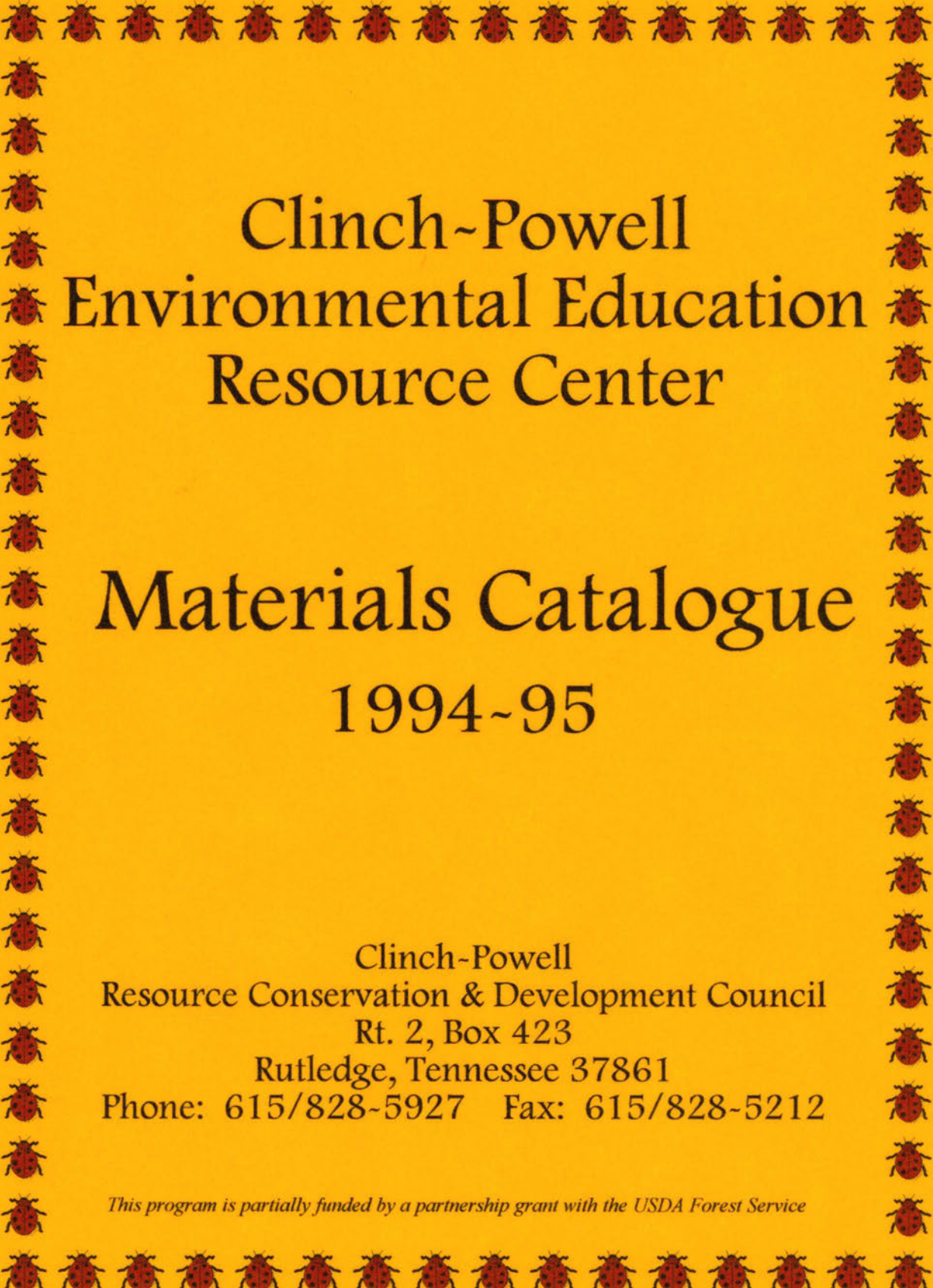
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Folder Title:
Clinch-Powell Education Resource Center - Materials Catalogue, 1994-95

Stack:	Row:	Section:	Shelf:	Position:
S	66	1	2	3

A decorative border of red ladybugs frames the entire page. The ladybugs are arranged in a rectangular pattern, with one row at the top, one at the bottom, and vertical columns on the left and right sides. The border is approximately 15 ladybugs wide and 25 ladybugs high.

Clinch-Powell Environmental Education Resource Center

Materials Catalogue 1994-95

Clinch-Powell
Resource Conservation & Development Council
Rt. 2, Box 423
Rutledge, Tennessee 37861
Phone: 615/828-5927 Fax: 615/828-5212

This program is partially funded by a partnership grant with the USDA Forest Service

Clinch-Powell Environmental Education Resource Center

This resource center has been developed as a source of enrichment materials for your classroom activities. It is made possible by grants and donations from the USDA Forest Service, the State Planning Office and the Knoxville Utilities Board. Please make use of this excellent resource and let us know how we can improve our materials and services.

Instructions for Borrowing Materials

HOW TO CHECK OUT MATERIALS: Call or write the RC&D Office with the description of the item.

LENGTH OF CHECK OUT TIME: Materials may be borrowed for two weeks.

DELIVERY: Some materials may be mailed. Some must be picked up. Please allow 1 - 2 weeks delivery time for requested materials.

CONDITION: You are responsible for the condition of materials. Please return in the same condition as received. Some materials are fragile (like skulls). Please use good judgement in student handling.

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LOWER GRADES

LOWER GRADE LEVELS

GAMES AND OTHER ACTIVITIES

EARTH FRIENDS

K - 2

Big 15" x 18" double-sided cards. Select specific cards for whole class lessons, some for smaller groups, others for individual study -- you'll have enough cards to do them all at the same time! Exciting cross-curricular activities on a current environmental theme. Children's Television Workshop, with 25 years of experience in childhood education, has developed this all new teaching program for you.

FUN - TO - KNOW EARTH - FRIENDLY CHOICES

Flash cards

K-6

Set of 27 high-interest flash cards (4" x 6") with discussion questions students can take turns answering. Example: "You have a plastic waste basket in your room. You line it with _____."

COMMUNITY CATS

Solid waste, hazardous waste

Grade 3

Package includes teacher's guide, two posters, twenty solid waste/resource cards and teacher information card, as well as blackline masters, pre-test and post-test. Each lesson plan includes objectives, list of materials needed, advance preparation needed, step-by-step instructions for completing the lesson, and optional enrichment activities.

SAVE THE FOREST

Board game

K - 3

Follow the path through the forest and find animals, collect litter and score points. Helps kids learn about animals and the environment, and encourages children to respect nature.

THE CONSERVING CLASSROOM

Set of Cards (5-1/2" x 8") on rings

K - 6

Cards present one or two classroom activities to promote resource conservation, waste reduction and recycling.

BIODEGRADABLE

Stapled pages (Student guide only)

Grade 4

Includes a pre-test and post-test, a personal ecology checklist, numerous activity sheets, and vocabulary tests. Teacher's guide is not available.

ENVIRONMENTAL ACTION PACK

3 - 6

Teach students about the importance of nature's food chain, why we recycle and a variety of other environmental issues with this packet developed with Chicago's Field Museum of Natural History.

HANDS ON SCIENCE

Grades 3 - 4

Experiments include: tube flutes, tin can telephone, megaphones, pin hole camera, siphon, centrifugal force, attraction and repulsion, airplane design ... plus many, many more.

RAINFOREST PANORAMA PUZZLE

Realistically depicts life in the forest. It features over 30 birds, animals, and insects, giving a representative view of different types of forests around the world. 48 pieces, identification, key 5' long.

POND PANORAMA PUZZLE

Shows life in, on, and surrounding a pond, 29 different plants, birds, fish, insects and amphibians are depicted in full color. 48 pieces, identification key, 5' long.

CASSETTES AND VIDEOS

SPIRIT OF THE EAGLE

3 - 9

Is an involving program that will fascinate young students as they learn about wildlife conservation. This entertaining and informative video explores our endangered national symbol, the magnificent bald eagle. An interracial group of inner city children is taken to a wildlife island preserve where the eagle nests. A naturalist teaches the children about this bird of prey and the threats to its existence. They witness the eagles hunting prey raising their young, and soaring across the sky. Several children discover an injured eagle, which they help to save. Through their adventures they gain an appreciation of nature and wildlife.

LET'S CLEAN UP OUR ACT (SONGS FOR THE EARTH)

Cassette and booklet

K - 6

Cassette of contemporary folk songs promotes environmental awareness/nature. Includes book with words to the songs, suggested activities to accompany each song.

KID'S EYE VIEW OF ECOLOGY

1 - 6

Is a wonderful video to introduce ecology to students in grades 1-8. Kids will find it hard to resist singing along with children's entertainer Michael Mish and 3 children who present a lively, fast-paced overview of major environmental subjects: pollution, waste, recycling, energy, water conservation, ozone depletion and deforestation. Along with the problems, the video presents practical suggestions and encourages young people to be an active part of the solutions. The program is liberally spiced with 7 of Mish's own songs on ecology, which Entertainment Weekly called "energetic, catchy and powerful." Produced by a PBS affiliate station.

GIFT OF WHALES

2 - 8

Is a modern fable that will help younger children develop an appreciation for nature and a strong interest in marine mammals. Dan, an 11 year-old Native American boy who lost his father, lives in a small village on the Pacific Coast. Often bored and lonely, Dan's life is transformed when his grandfather and a friendly marine scientist introduce him to the beauty of the whales - and how they are threatened. The story is personal and poignant, with spectacular footage of whales that makes the video a delight to view.

THE MURKY WATER CAPER

K - 5

Follow the adventures of Billie Beaver, Molly Duck, Devin the Dolphin, Toots the Trout, and a host of other characters who seek the help of Detective Tuesday to discover who's been polluting the local stream. Taped before a live audience of young children, THE MURKY WATER CAPER provides a humorous, fast-paced introduction to water pollution and conservation. Featuring appealing costumed characters, lively songs, and a clever script, this video will entertain as it informs young audiences about the causes for water pollution and practical steps their families can take to protect local water sources. Written by children's playwright Deborah Rodney Pex, the play has been successfully performed in dozens of elementary schools across the country. The video comes with an extensive educational kit from America's Clean Water Foundation, which includes a complete script and music enabling any school to perform the play.

BOOKS

THE EARTH BOOK

ACTIVITIES FOR KIDS

Covers basic earth science topics and timely environmental issues. Includes dozens of enjoyable hands-on activities. Over 200 line drawings and illustrations, easy-to-do activities and experiments. Kids uncover secrets about the Earth's composition, movement, oceans, atmosphere, habitats, environments and much more. Also examines harmful factors that threaten the Earth and the life of its inhabitants. 112 pages; paperback.

PROTECTING OUR WORLD

2 - 5

Using straightforward language and colorful illustrations, they present the facts in an interesting and attractive way, while at the same time not glossing over the undeniable problems that the world faces in the future. Suggestions to help solve these problems included. Active involvement in local projects is encouraged.

LET'S GET DOWN TO EARTH

AN ECOLOGY JOURNAL

Develops an awareness of environmental concerns. Individual student pages as well as project and bulletin board ideas in month-by-month context. 121 student pages plus guide.

THE OCEAN BOOK

AQUARIUM AND SEASIDE ACTIVITIES AND IDEAS FOR ALL AGES

K - 6

Wide range of educational and fun experiments, investigations, and puzzles emphasizing conservation of endangered species. 128 pages; paperback

LET'S SAVE WATER COLORING BOOK

1 - 6

This coloring book, created to teach elementary school children about the importance of water conservation, describes the story of water and illustrates the amount of water needed for several day-to-day activities. The book is available through WEF, courtesy of the Little Rock Wastewater Utility, Little Rock, Ark.

SHOW YOU CARE COLORING BOOK

K - 2

Eight-page activity book for kindergarten-second grade students; features Buddy Bear celebrating the 1992 Soil and Water Stewardship Week theme "Our Treasured Trees"; coloring, matching and writing activities focus on how people are dependent upon trees and how they interact with trees; describes skills relating to the material and additional activities.

SPLISH - SPLASH - THE ADVENTURES OF A WATER DROP

Targeting young children, this 16 page cartoon booklet by the Purdue University Cooperative Extension Service, depicts the life of a water droplet from rain to groundwater to steam to snowflake.

SCIENCE ON A SHOESTRING

K - 8

The best-selling resource has been completely revised and updated. with new chapters on earth science, ecology, and light and optic, it enables teachers with little science background and small budgets to implement a high-quality and affordable science program. The book specifies grade levels, materials, vocabulary, and the amount of time needed for each project.

SCIENCE EXPERIMENTS

Grade 4

This entertaining book, aimed at 10 year olds and up provides an ideal back-up to the world of school science. Covering all the main branches of science, it is filled with safe and simple experiments and activities. The experiments can be done with minimal supervision and with easily available materials. 64 pages.

SCIENCE ACTIVITIES

Grades 1 - 3

Science Activities is an 80 - page book designed to expose young children to basic scientific principles, stimulate creative thinking and show them that science is FUN!!

ELEMENTARY SCIENCE KIT

Grades 3 - 8

A complete science program that can be used alone or with any textbook! Over 70 pieces of equipment and 150 experiments organized in heavy-duty tool box. Manuals contains 19 teaching units on topics ranging from air to weather earth to space, plus background information.

HANDS ON RESOURCES

SCIENCE WITH MAGNETS

Grades 1 - 3

Reveals the properties and basic scientific principles relating to magnetism. The simple but safe experiments and games make this book ideal for learning through personal experience and observation. 24 pages.

FLOATING MAGNETIC RINGS KITS

Designed to demonstrate the attraction-repulsion theory of magnetism. Students use five colored ceramic washer magnets and a 6" dowel to perform this popular experiment and others.

WORM ACRES

A COMPOSTING KIT FOR KIDS

Discover the fascinating world of composting with this unique hands-on science kit. Included is everything you need to recycle organic waste into nutrient rich fertilizer with the help of real live earthworms! The kit comes complete with a covered composting bin, a free certificate for 250 live earthworms, compost starter bedding, water sprayer, airflow filter, coloring book, and a complete instruction and activity guide with fun earthworm experiments!

POSTERS

LIFE SCIENCE

Parts of a Tree; Parts of a Flowering Plant; Life Cycle of a Frog; Life Cycle of the Butterfly and How a Chick Hatches.

EARTH SCIENCE

Rocks and Minerals; The Earth's Layers; Clouds; The Water Cycle and Earth - There's No Place Like Home

NATURE

How Seeds Travel; Leaves; Insects; Birds and A Food Chain



MIDDLE GRADES

MIDDLE GRADES

GAMES AND OTHER ACTIVITIES

POLLUTION SOLUTION

Board game
4 - 12

Players tackle environmental issues as they work to clean up "PS Township" in this challenging game.

ANIMAL SURVIVAL

Activity Sheets
3 - 10

How to survive? Do you hop, crawl, swim or fly? Will you claw and chew your way through life, or hide and blend in? Do you carry heavy armor, sport quills, sting or just smell bad? Animal survival is a wonderful blend of science, art and imagination. Make a tiny tempera paint kit improvised from aluminum foil. Finger-paint a desert-scape, then create a lizard to blend right in. Camouflage paper moth so perfectly that not even big bird (the school principal) can see them. Create a cornflake to mimic the real thing. This module helps every student enjoy and appreciate the wit and wonder of nature.

GREEN THUMBS: RADISHES

Activity Sheets
3 - 10

Radishes aren't fussy. Provide them with a warm, moist environment (a wet paper towel in an egg carton works just fine) and away they grow. In just a day the seeds will sprout. By the end of the week you'll get plants that areas tall as 5cm. Because radishes grow so fast, tropisms are easy to observe. See how the roots grow toward water; how the leaves tilt toward light; how the stems bend against gravity. Graph growth rates on a sigma curve. Eat a salad direct from the sun. Radishes are a great hands-on introduction to plants and how they grow.

GREEN THUMBS: CORN AND BEANS

3 - 10
Activity Sheets

This module blends science, math, language and art into a single grand learning experience. There is much to observe, to calculate, to write and to draw. Your students will grow popcorn and pinto beans (the kind you buy in any grocery store), then track plant development in their personal daily journals. Over 4 weeks your class will compile a complete written and visual record of growth; graph daily height and weight gains; study how leaves photosynthesize; examine the role of cotyledons in plant development; learn to distinguish monocots from dicots in flowering plants, and much more.

RECYCLE U. S. A.

Card game
4 - 12

Players compete to reuse their pretend paper, grass clippings, glass and plastics.

CONSERVING SOIL

6 - 9

Conservation information easily comprehended by sixth - ninth grade students. Features hands-on activities, background information, color transparencies and masters for photo-copying in folder format.

BOOKS

MORE ADVENTURES OF COLONEL KENTUCKY

Comic book workbook with teacher's guide

Grades 5 - 6

Colorful workbook includes many interdisciplinary learning activities and puzzles inspiring students involvement. Teacher's guide includes answers to workbook activities, instructional objectives, and step-by-step procedures for completing the lessons.

ONE GREEN TREE

4 - 6

Comic book for fourth - sixth grade students about how trees use air and water, conserve soil and benefit people.

WECOLOGY MAGAZINE

6 - 10

Drive environmental issues home with articles and problem-solving activities in this 16-page magazine developed with the World Wildlife Fund.

PROJECTS FOR A HEALTHY PLANET

3 - 6

Simple Environmental Experiments for kids A fun, illustrated step-by-step experiment book. 96 pages; paperback.

CASSETTES AND VIDEOS

SAVING WATER: THE CONSERVATION UNIT

5 - 9

Imagine a visit to a museum of the future. Curator Dino Sorus explains how all the earth's water, except for one small vial, has been wasted or polluted beyond use. Students see what might happen tomorrow unless they begin preserving our water supply today.

THE GROUNDWATER VIDEO ADVENTURE

5 - 9

The often puzzling concept of groundwater is explained with a video game format and game-master Dino Sorrus. An on-screen student gains points by preventing groundwater pollution from industrial, agricultural, and private residential sources. However, students learn that preventing groundwater pollution is not just a game - it's something they should do every day.

THE WASTEWATER TREATMENT

5 - 9

This entertaining video presents a complete overview of the wastewater treatment process, explains to students how they are affected, and spells out what they can do to promote clean water.

THE SURFACE WATER UNIT

5 - 9

Your students will examine water quality issues and learn how the water cycle works, along with Dino Sorrus and live-action students. Reports from the field on the state of today's surface water quality will give your students ideas on how to prevent water pollution.

HANDS ON RESOURCES

HANDS ON SCIENCE

Grade 5 - 6

Experiments include: oscilloscope, stroboscope, spectrum color wheel, electroscope, electromagnet, buzzer telegraph, equal arm balance, emulsions, calcite test, rock hardness test . . . plus many, many more.

SCIENCE FAIR PROJECTS

Grades 4 - 6

Science Fair Projects will direct young scientists and provide information to construct super science projects! Many of the activities in this 96-page book are related to saving the environment.

*MIDDLE AND UPPER
GRADES*

MIDDLE AND UPPER GRADES

GAMES & OTHER ACTIVITIES

ANYONE CAN

Board game

7 - 12

A recycling game. Includes gameboard, spinner, playing pieces, 40 cards, play money and 120 cans. Playing time 45 minutes. For 2 - 4 players.

DISPOSAL GAME

Board game

7 - 12

20 - 30 minute board game for 2 - 4 players on environmental studies.

ENVIRONMENTAL RUMMY

Card game

7 - 12

A game about observation, interpretation, and classification played according to rummy rules. Includes cards, card rack and spinner. Playing time 20 minutes. For 3 - 6 players.

CASSETTES AND VIDEOS

WE CAN MAKE A DIFFERENCE

5 - 12

Concerned about the environmental crisis, 12 high school students decided to make a video that would inspire other young people to save their planet. The students worked on the project for an entire school year, interviewing hundreds of children ages 4 - 18. They asked questions about pollution, global warming, ozone destruction, and most importantly, can young people make a difference? This unique, hopeful video has had an international impact. The student videographers presented the program to the United Nations staff in Geneva. As a result, an International Environmental Youth Conference was named after the video, and the students won a UN "Global 500" award. WE CAN MAKE A DIFFERENCE is a great discussion starter and testimony to the power of young people.

GREENHOUSE CRISIS

THE AMERICAN RESPONSE

7 - 12

GREENHOUSE CRISIS provides a concise, fast-paced overview of the relationship between energy consumption, the greenhouse effect, and global warming. Based on research by the respected Union of Concerned Scientists, this video explains the potentially disastrous consequences of global warming. Specific ways students and others can help reduce our contributions to the greenhouse effect are highlighted, including increased energy efficiency, reducing energy use, and developing renewable forms of energy. This is a good introduction to a major environmental issues, providing a direct link to student actions.

SPACESHIP EARTH
OUR GLOBAL ENVIRONMENT
7 - 12

Kids eating burgers in the USA. Surfers in Australia. Indians in the Amazon. What in the world do they have in common? SPACESHIP EARTH is a unique program that can help students understand how their everyday actions have a global impact on our environment. hosted entirely by young people, this acclaimed video travels the world to explore the amazing interdependence of human, natural, and technological systems. The abstract issues of global warming, ozone depletion, and deforestation are made immediate and personally relevant. International rock star Sting is featured working on behalf of native rainforest dwellers. SPACESHIP EARTH is an excellent, entertaining video to use as an introduction to environmental studies.

CONSERVING AMERICA
A 4 PART SERIES
7 - 12

Across America, wildlife, rivers and wetlands are threatened. In response, Americans of all ages are taking action to preserve our natural heritage. This four part PBS series features inspiring portraits of concerned people working together for the environment. For classroom use, each program includes a separate, detailed workbook which features Class Exercises ("Using Topographic Maps"), suggested Field Activities, and Worksheets ("Locating Wetlands"), and a Resource Bibliography.

OUR FRAGILE EARTH
A 2 PART SERIES
7 - 12

Is a two-part series developed for junior and senior high students with the guidance of Science Teachers of Missouri. Both of these information-packed programs provide a fast-paced overview of their respective subjects, emphasizing student involvement and the connection between their lives and the environment. An excellent 12 page discussion guide accompanies the videos. The guide includes suggested classroom activities, such as making recycled paper and storing solar energy.

OUR THREATENED HERITAGE
8 - 12

Every minute, more than 50 acres of tropical forest are destroyed or seriously degraded. Several species a day are lost to extinction as a result. The death of these forests is affecting all of us on earth - accelerating changes in global weather, eliminating valuable biological resources for industry and medicine, and exacerbating hunger and poverty. OUR THREATENED HERITAGE, produced by the nation's largest environmental organization, provides a concise overview of the destruction of the rainforests and what can be done to stop it. Images of fascinating wildlife and towering trees are vividly presented, along with comments from global experts about the causes and potential solutions to the destruction. The link between the environment and development in the tropics is also explored. OUR THREATENED HERITAGE is an excellent summary of the demise of one of our most important eco-systems.

ALASKA'S WHALES AND WILDLIFE
8 - 12

Is a spectacular visual journey to one of America's most pristine and scenic wilderness areas - the southeast coast of Alaska. This unique marine and coastal eco-system is home to an amazing variety of wildlife found nowhere else, as well as massive glaciers and the world's largest temperate rainforest. Naturalists provide a guided tour through the lush rainforest and the region's other natural wonders, from unusual mosses and mollusks, to black and brown bears, bald eagles, otters and humpback whales. A

portion of the southeast coast includes Prince Williams Sound, site of the 1989 Exxon Valdez oil spill. That event provided a warning: the raw scenic beauty of this area is endangered by an increasing range of human activities.

UPPER GRADES

UPPER GRADE LEVELS

GAMES AND OTHER ACTIVITIES

REGIONAL MAP

Framed in solid wood with walnut stain finish. Hubbard raised relief maps will introduce you to a new map experience. They give you all the information of ordinary flat maps, plus a scale model of the terrain accurately and realistically reproduced on durable plastic.

CASSETTES AND VIDEOS

THE FOREST THROUGH THE TREES

9 - 12

The national controversy over preserving spotted owls and ancient forests is one of the most potent symbols of the larger conflict between economics and the environment. This highly-acclaimed film is the definitive examination of the battle over the last remaining stands of virgin redwoods in private hands. Produced by a former NBC News bureau chief, THE FOREST THROUGH THE TREES goes behind the dispute. All sides speak passionately of their concerns and interests: loggers, timber executives, politicians, environmentalists, and local residents. Extraordinary closeups of the now famous spotted owl, along with magnificent forest scenes, bring the redwoods to life.

WE ALL LIVE DOWNSTREAM

9 - 12

America's most historic river, the Mississippi, has become a 2300 mile toxic waterway. Over half the industrial toxic waste discharged into our lakes and streams is dumped directly into the Mississippi. Cancer and mortality rates are among the highest in the nation along the chemical corridor stretching from Baton Rouge to New Orleans. Entire towns have been shuttered as the direct result of unchecked air and ground water pollution. Meanwhile, the debate rages between environmentalists and government officials over how dangerous the pollutants are and what regulations should be put in place or enforced. WE ALL LIVE DOWNSTREAM explores the problems and the stories of people who live along the river, many of whom are now fighting to save the Mighty Mississippi.

DRINKING WATER: QUALITY ON TAP

10 -12

How do we get our drinking water? How do we keep it safe? This video provides an informative, detailed look at how the source of water, the supply, the treatment, and the delivery systems work together to provide quality drinking water. "Recommended. Clear and well-organized...a valuable educational resource on an important subject that is often taken for granted."

HANDS ON RESOURCES

SKULLS

- * Whitetail Deer (Buck)
- * Muskrat
- * Fox (Gray)
- * Bobcat
- * Otter (River)
- * Rabbit
- * Squirrel (Tree)

- * Mink
- * Fox (Red)
- * Beaver
- * Coyote
- * Opposum
- * Skunk (Striped)
- * Turkey

WILDLIFE PELT BOX

- * Bobcat
- * Deer (Whitetail)
- * Fox (Red)
- * Otter (River)
- * Raccoon
- * Opposum

- * Beaver
- * Mink
- * Fox (Gray)
- * Muskrat
- * Coyote

ALL GRADES

ALL GRADES

GAMES AND OTHER ACTIVITIES

CLASSROOM ACTIVITIES

Waste Reduction, Recycling, Solid Waste Management
K - 12

The guide contains a collection of lesson plans and activities, each with suggested grade level, background information, materials required, step-by-step instructions for completing the lesson, extended learning activities, and pre-test and post-test questions.

ECOLOGICAL QUOTIENT CARD

3 1/2" x 9" card testing environmental awareness. An appropriate ice-breaker for general discussion on the environment in the classroom and group meetings.

PETER PED - THE ADVENTURES OF A PED OF SOIL

Young "Peter Ped" is the main character of this 16-page cartoon booklet by the Purdue University Cooperative Extension Service. It's a look at soil erosion and soil characteristics, targeted to an audience of young children.

POLLUTED

Color - illustrated brochure by the U. S. Environmental Protection Agency, outlining causes and effects of nonpoint source pollution, as well as what the reader can do to prevent this type of pollution. Includes listing of all regional U. S. Environmental Protection Agency offices, addresses and phone numbers.

SOIL AND TISSUE TESTING ... DOING IT RIGHT

A fold-out brochure with color photos, published by Na-Churs Plant Food Company, that takes the reader through the step-by-step process of tissue and soil testing. A tissue sampling guide for various crops is included.

VISUAL ILLUSIONS PLAYING CARDS

Science, magic, and art all come together in a fascinating way whenever a visual illusion is created and experienced. Witness then, a spectacular collection of 55 visual illusions culled from around the world in these unique playing cards. Each deck of coated cards comes with a detailed explanatory booklet describing how and why each illusion works, which serves to teach valuable principles about human perception.

ANIMAL TRACK MATCH CARD GAME

Animal Track Match is a traditional game of concentration, matching animals to their tracks. Instructions for cooperative ways to play various games are included. Set consists of 19 animal cards, 19 matching track cards, animal track guide and instructions.

JUNIPER - A GAME OF TREES

55 playing cards - full color paintings are a fun way to learn the trees. Instructions for different games are included.

PREDITATOR

Use this versatile card deck to teach the concepts of "Food Web" and "Food Chain." Adapt old favorites like solitaire, rummy, war, concentration, etc. Stalk the forest with the wild animals in this deck of 40 cards based on the exciting predator-prey relationship.

ANIMAL CLUE

Animal clue is one of the most popular activities in Joseph Cornell's book SHARING THE JOY OF NATURE. This set of 40 cards contains clues to identify four fresh water pond animals. Participants learn fascinating natural history information about the pond eco-system. In addition, this set contains 24 cards of other pond life animals and plans for teachers to create their own clue cards. There are also directions for 10 different games to play with the cards, allowing the teacher to further explain the pond environment, its food chains, predators, etc.

SCIENCE PARTICIPOSTER

A giant crossword puzzle with over 400 entries - a potpourri of physical and biological sciences. 7 separate puzzles within title letters. More than 40 additional directed challenges using "Spacer" pictures within crossword. For individual or group participation. Hours of fun and learning.

HANDS - ON RESOURCES

100 - PIECE ROCK AND MINERAL SET

From agate to vermiculite, this outstanding set of 100 specimens, gathered from around the world and mounted on an oak frame, is a perfect reference collection and a valuable aid in identifying and comparing common and rare rocks and minerals. 12" x 20"

TREASURES FROM THE EARTH

Our collectors have unearthed some terrific finds. Dinosaur bones, fools gold, trilobites and more. Each of these specimens are individually packaged on a colorful descriptive card. Perfect for the budding scientist or classroom display.

- dinosaur bone
- nature's magnet
- fossil trilobite
- geode
- optical calcite
- floating rock
- fools gold
- porcupine quill
- petrified wood
- peacock ore
- desert rose

FLEX TANK WITH COVER

Flex tanks are lightweight, inexpensive plastic tanks that can be used as aquariums, terrariums or critter chambers. Molded foot pets prevent scratching. Rounded corners for easy clean-up and no slip covers with ventilation ports. 1/2 gallon capacity. 8" long, 6" wide and 4" deep.

MICROSCOPE SLIDES

Six prepared slides, each containing 4 specimens (24 specimens total). Assortment of plants, animals, insects, textiles, pollen and spore.

BUG BOX

This box with 1001 uses. Perfect for observing germs, insect specimens, leaf parts, soil grains, etc. Acrylic box has molded magnifier cover with a 4 x power that snaps on and off. A great way to display small items uniformly. Box size is 1" x 1" x 3/4"

WHAT LEAF IS IT?

Students describe and classify leaves by their shape, size, arrangement on the twig and leaf margin. Kit includes teachers guide, 6 classroom activities, 39 tree leaves representing 13 urban tree species, a reproducible leaf key that keys out the leaves in the kit and a 61 page picture key book. All leaves are pressed, dried and individually packaged for lasting use. Examples of leaves in the kit are maple, oak, walnut, elm, pine and ash.

WHAT TWIG IS IT?

Students lay out and identify winter twigs by their color, size, shape, buds and thorns. They will determine the age of the twigs and chart bud development. Kit includes teacher's guide, 8 hands-on activities, 39 winter twig specimens, 13 different species, twig key for unknowns in kit, 58 page picture book and 3 magnifying glasses.

TREE RINGS

This unique educational tool is perfect for classroom or museum. A 2 1/2" x 3 1/2" slice of pine mounted on a sturdy card with a detailed description on the back on how to read tree rings. Nature centers, schools, students - anyone with an interest in Botany will find this product extremely useful.

REPLITRACKS SAMPLER

Contains 18 different tracks, field guide to tracks and an activity booklet.

- | | |
|-------------------|---------------|
| * Raccoon | * Deer |
| * Skunk | * Squirrel |
| * Cottontail | * Porcupine |
| * Snapping turtle | * Woodchuck |
| * Opposum | * Mallard |
| * Chipmunk | * Frog |
| * Barred Owl | * Bald Eagle |
| * Beaver | * Muskrat |
| * Red Fox | * Timber Wolf |

REPLISCAT SAMPLER

Contains 11 different samples including:

- * Chipmunk * Rabbit
- * Deer * Fox
- * Muskrat * Porcupine
- * Toad * Raccoon

BOOKS

THE THOMAS EDISON BOOK OF EASY AND INCREDIBLE EXPERIMENTS

Activities, Projects, and Science Fun for All Ages. This idea-packed catalog contains a range of activities and experiments that require no science background. Over 100 illustrations, 146 pages.

BE AN EXPERT WITH MAP AND COMPASS

This book teaches everything you need to know about the skill orienteering: how to use map and compass, alone or together. The text includes a series of games, practicing map and protractor to help the student put newfound knowledge into practice.

TRACK FINDER

Identifies tracks and foot prints of wild fur bearing animals.

GOLDEN GUIDES

- * TREES
- * MAMMALS
- * FISHES

THE YOUNG NATURALIST

Designed to stimulate interest and serve as a supplement or a preview to school studies, colorful illustrations abound and explanations are clear. The perfect introduction to the study of nature. Ages 8 and up. 32 pages.

FIELD GUIDE TO TRACKS OF NORTH AMERICAN WILDLIFE

95 actual size prints from both front and hind feet on animals and birds of North America. 67 different species can be identified. 160 pages.

NATURE BOOKS

- * Freshwater Fishes
- * Mammals
- * Animal Tracks
- * Trees and Shrubs

POSTERS AND CHARTS

INVERTABRAE SET (NO INSECTS)

- * Spider web's "EARLY WARNING" system
- * Crayfish - A Suit of Armor
- * Sow Bugs - What are they?
- * Daddy Longlegs Ability to Lose a Leg
- * The Indispensable Earthworm

FISH SET

- * Sunfish - fish nets
- * Fish - weightless in water
- * Fish - How some catch their prey
- * Fish never stop growing
- * How fish breathe

BIRDS SET

- * Staying on a perch while asleep
- * Why birds preen
- * The owls f silent flight
- * Robins - looking or listening
- * Birds bill adaptations

MAMMALS SET

- * Do raccoons really wash their food?
- * The chipmunks chubby cheeks
- * How muskrats stay warm and dry
- * The skunk-chemical warfare expert
- * The beavers safe home

PLANTS SET

- * Gallos - What makes them?
- * Spring wildflowers
- * Itching to know about poison ivy
- * How a tree shows its age
- * Mushrooms - To eat or not to eat

REPTILES / AMPHIBIANS SET

- * Turtles - Why they sun
- * Frogs and Toads - What's the difference
- * Snakes - Is it poisonous or not
- * Salamanders return "HOME"
- * The skinks break-apart tail

INSECTS SET

- * Honey bee - Its' two food goals
- * Flea - A common nuisance
- * Mosquitos - Before and after a meal
- * Wooly Bear - Can it foretell weather
- * Crickets - How they sing

POLLUTION CHARTS

Set of 4 color charts depicting noise, water, solid waste and air pollution. Illustrated with hundreds of drawings, photos, graphs and data.

GROWTH OF A TREE CHART

A giant 24" x 36" full color wall chart depicting the inner and outer parts of a tree. Includes microscopic views of roots and leaves, and describes the most important tree function.

AUTUMN LEAVES

22" x 28" poster

ANIMAL TRACK

22" x 28" poster

ROCKS AND MINERALS

Describes in detail how ingenious, metamorphic, and sedimentary rocks are formed along with examples of each. A mineral hardness guide is pictured along with a description of metals coming from various mineral ores.

BIRD'S NEST AND EGGS

Pictures the hatching of an egg up to 13 days old. Also shows completed birds' nests and various materials used in their construction. Examples of 16 different bird eggs are shown.

POND AND RIVER LIFE

Big, beautiful photographs of plants and animals living in and surrounding ponds and rivers. Includes underwater weeds and plants, insects, amphibians, reptiles, fish, and mollusks.

EQUIPMENT

BIG SCREEN MICROSCOPE

A Microscope the whole class can gather around. Our incredible Big Screen Microscope allows children to view images at an amazing 1,600 times their normal size. Simply slip a slide into place, turn on the light and adjust the focus. Jumbo 8 1/2" x 11" screen. Comes with 1 prepared slide, 2 blank slides, cover slips and a spare bulb. Uses 3 "C" batteries.

PICTURE WINDOW INCUBATOR

Top has large clear plastic window for the best viewing of the incubating and hatching process. Picture window is double plated plastic with air space insulation to help eliminate moisture build up. 18" x 18" x 7 1/2", 110 volt, 40 watt thermostat with capacity for up to 42 chicken eggs. Fertilized eggs must be acquired locally.

TV/VCR COMBO

Panasonic 19" color television with built in VCR.

CAMCORDER

Sony 8mm handycam camcorder.

ENVIROSCAPE

The dimensions of the model are 25" x 30" x 5". Enviroscape comes in a lightweight suitcase, complete with ingredients and components to get you started. Also included is an easy to understand User's Guide with a glossary, a quick reference Operating Guide, Terrene's Handle with Care book, and a Location Key. Enviroscape is not an age-specific education tool, but can be tailored to different levels of audiences and programs. We have found that children in the classroom not only adore the model; they also learn from it. Adults of different ages and interests enjoy the model and learn a great deal from it as well. The facilitator has the opportunity to customize the model to meet his or her needs in different settings.



EDUCATORS

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VIDEOS

KIMBARK: FOCUS ON ENVIRONMENTAL EDUCATION

This video for educators documents a K - 6 environmental education program at Kimbark Elementary School, which serves as a national model for the National Science Teachers Association.

PREPARING FOR THE 21ST CENTURY: THE CHALLENGE OF CRITICAL THINKING

For 20 years Rodger Halstead has taught his high school students how to think critically about the ultimate issues of our time. This video presents a dynamic model for teaching critical thinking on global issues. Process Guide Included. "A vivid demonstration of the workability and effectiveness of critical thinking."

BOOKS

GUIDES AND DIRECTORIES

Environmental Education Teacher Resources Handbook, a practical guide for K -12 environmental education, edited by Richard J. Wilke, is published in cooperation with the National Science Teachers Association. It provides teachers the resources needed to plant their program, lesson plans, and daily activities. This guide does not seek to prescribe any particular form of curriculum, but it provides an overall sense of the different options available for integrating environmental education.

SHARING NATURE WITH CHILDREN

Nature awareness guidebook for educators and parents, written with sensitivity and with emphasis on stimulating and enlightening experiences with nature for children. Suggestions on how to choose the right game for the time and place and activities that are wholesome, uncompetitive and imaginative are included. 142 pages, softcover.