

Cumberland Soil & Water Conservation District

Environmental Education

LOAN LIBRARY

Cumberland Soil and Water Conservation District's Loan Library has hands-on activity guides, videos, DVD's, books and educator kits to enable you to effectively teach about soil, water, air, forests, wildlife and environmental issues. All Loan Library materials are available free-of-charge for a 1-2 week loan period. To borrow from the Loan Library, contact Donna at: 484-8479 ext. 3 or dfoster@co.cumberland.nc.us

BOOKS, EDUCATIONAL KITS & ACTIVITY GUIDES

A Sand County Almanac and Sketches Here and There by Aldo Leopold

A Handful of Dirt You'll never look at the ground you walk on in the same way again after you've taken Raymond Bial's eye-opening, down-in-the-dirt tour of soil.

Access Nature National Wildlife Federation outdoor education curriculum focused on the theme of habitat. Forty-five hands-on activities for ages 6-14.

Aldo Leopold, The Man and His Legacy by Thomas Tanner

All the Way to the Ocean An uplifting story about two friends who discover the cause and effect relationship between our cities' storm drains and the world's oceans, lakes and rivers. Grades K-5

Children of the Great Depression Drawing on memoirs, diaries, letters and other firsthand accounts, this book places the Great Depression in context and shows young readers its human face. Illustrated with classic archival photographs.

Common Forest Trees of North Carolina Identification Guide

Common Ground – Modern Mining and You Imagine a day when all of the mineral products in your life disappear! Kit includes video, teacher's guide and visual aids. Upper Elementary to High School

Conservation Plants Identification Guide

Conserving Soil Kit includes a complete lesson on soil composition and basic management. Includes reproducible activity masters, 4-color transparencies and guidebook.

Conservation Trees and Shrubs Identification Guide

Dig In! Hands-On Soil Investigations Lessons/Activities designed to heighten student awareness of the value of soil. Grades K-4

Dirt: Secrets in the Soil Video and lesson plans are an interactive program divided into six sections. Grades 3-9

Discover a Watershed, The Watershed Manager Educators Guide Activities that define a watershed and teach that every level of soil, plant, animal and human life depends on the health of the watershed. Grades K-12

EcoArt Earth-Friendly Art and Craft Experiences for 3 to 9 year olds. Nature's bounty becomes the tool through which children learn to respect nature, care for their environment and preserve the earth's fragile ecological balance – all done while discovering their own artistic natures.

Earthworm Empire The Living Soil Especially suited for students preparing for soil judging. Upper Elementary –High School

For Love of the Land A history of the National Association of Conservation Districts

Healthy Food From Healthy Soils A hands-on resource for educators. Down to earth activities. K-6

I Love Dirt! 52 activities to help you engage your kids in the outdoors. Each activity is meant to promote exploration, stimulate imagination and heighten a child's sense of wonder.

Know Soil Know Life will introduce you to an amazing world – the world beneath your feet! High school students studying environmental science or participating in an Envirothon or Science Olympiad will find this book is an easily accessible resource.

Last Child in the Woods - Saving Our Children from Nature-Deficit Disorder by Richard Louv A national bestseller.

Life in a Bucket of Soil Illustrated with more than 70 drawings, this fact-filled book will introduce you to an amazing subterranean world most people never even think about.

Lines on the Land Educational kit. Shows landscape patterns and explains how land is affected by conservation practices. 16 lesson plans, 10-minute video tape and brochure. Grades 6-8

The Living Waters Educator's guide containing classroom demonstrations and other reference materials.

Nature in a Nutshell for Kids Ten minute easy experiments and activities from Jean Potter. Projects are organized by season.

Microlife That Lives in Soil Close-up visuals and detailed information about microscopic organisms not visible to the naked eye.

Nature's Ways Natural History Essays from *Wildlife in North Carolina*

North Carolina Wildlife Profiles

Operation: Reuse It! Discover how forgotten treasures like old toys, electronics and even a broken down car can be reused. From the *Garbology Kids* series.

Rocks, Sand, and Soil *Windows on Beginning Science*. Hands-on science for young children.

Schoolyard Mosaics – Designing Gardens and Habitats This book from National Gardening Association offers advice on involving students in the planning and design process. Twelve garden plans.

Sharing Nature with Children The Classic Parents' and Teachers' Nature Awareness Guidebook by Joseph Cornell

Sharing the Joy of Nature Nature activities for all ages by Joseph Cornell

SOIL - Our Endangered Planet Series– This book will help you understand how soil is formed, how it has become endangered, and how you can protect this important natural resource.

Soil Science Simplified Written for those who want to become acquainted with the basic concepts and scientific principles of soils.

Teaching Kids to Love the Earth. A collection of 186 earth-caring activities designed for use with children of all ages to help them experience and appreciate the earth.

Voices of the Dust Bowl The emotionally charged passages in this latest volume of Sherry Garland’s historical *Voices Series* highlight residents of a world covered in dust.

Water Matters Water Resources Teacher’s Guide, Volumes 1,2, & 3

Water Words Rhymed and Defined Water-related poems, colorful illustrations and interesting H2O facts.

Welcome to Our Farm Educator’s Kit, 1st Graders learn about real farmers and baby pigs. Lesson plans & video.

Wetlands (Ecosystems Series) Grades 3-5

Where Do Recyclable Materials Go? Find out how papers, plastics, metals and glass are collected, sorted and baled for manufacturing. From the *Garbology Kids* series.

VIDEOS

All Things Are Connected Video adaptation of Chief Seattle's eloquent speech about his people's relationship to the natural world. Vivid scenes help us understand today, more than ever, why we must take care of the earth to preserve it for future generations. 12 minutes Grades Elem. – Adult

Animals You’ll Never Forget The real life world of the Animal Kingdom is far stranger than fiction – and much more fun!

Arbor Day Holidays for Children Series Children learn about the legend of Johnny Appleseed and the real-life story of J. Sterling Morton, the founder of Arbor Day. Grades K-4 30 minutes

Backyard Conservation A look at easy and fun ways to enjoy your yard more and do your part to improve the environment.

Exploring School Nature Areas See how schoolyard sites enable students to apply lessons learned inside to the world outside! 13 minutes

The GLOBE Program An overview of the program and separate videos for GLOBE Land Cover, GLOBE Soils and GLOBE Hydrology protocols.

Freshwater Wetlands: Life at the Waterworks A look at the Freshwater Wetlands Exhibit at the NC Museum of Natural Sciences; Meet the inhabitants of six different wetlands; Explore six wetlands with a field biologist; and learn about carnivorous plants.

Just a Drop in the Ocean Basic lessons about water. 13 minutes Grades 2-5

Landscaping for Wildlife Shows how to turn your backyard into a rich home for wildlife. You'll see how to provide the three essentials of good habitat: food, water and cover. 13 minutes

The Man Who Planted Trees The narrator, well-known actor Christopher Plummer, tells of a plain and good man, who possesses an innate feel for nature and who manages to create a forest in a desolate and arid area. 30 minutes

Outside with Billy B. Sing and dance with Billy B. and learn scientific facts. Ages 2-6

Partnerships for Watersheds This video helps groups and individuals learn about watersheds. 13 minutes Grades 10-Adult

Storm Sewers and Where They Go Shows how storm sewers drain into water supplies. 10 minutes

The Wealth In Wetlands Shows the important role of wetlands. See the inspiring stories of five farmers who restored wetlands on their land and the benefits they gained. 23 minutes Grades 10-Adult

Wild About Life! An docu-drama about biodiversity for middle and high school students.

Wormania! Features close-up scenes of live earthworms in their natural habitat. Marry Appelhof, “Worm Woman”, brings these creatures of the dark into the light in the first view of live worms at work. Songs by Billy B. Age 8-up. Includes teacher guide.

Worm Bin Creatures - Alive Through a Microscope Zeros in on the tiny organisms often seen but rarely identified in a worm bin. Concise, interesting and informative narration makes this video fun to watch and an excellent teaching tool for all ages.

DVDS

Agriculture for Children – From Farm to Table Children learn about the variety of crops that provide us with food and the processes that foods undergo before they make their way to the store. Grades K-2

Dirt: Nature’s Sandbox Learn all about dirt while being introduced to basic earth science concepts. 15 minutes. Pre-K–1

Dirt! The Movie 2009 documentary that takes explores the relationship between humans and dirt. 89 minutes. 6th grade -Adult

Earth Day The story behind the first Earth Day in 1970. Discover some different ways to celebrate Earth Day. 12 minutes. K-4

Every Day is Earth Day, Do Pigs Scratch Their Backs? and Fixin’ on the Farm. Each session is 25 minutes long. Elementary

Growing a Nation - The Story of American Agriculture Dramatic and inspiring story of how agriculture has shaped the history of the United States, helping it become a prosperous nation and major world power. Supports state and national standards for teaching U.S. history.

Natural Resources – Earth Science in Action Students examine both renewable and nonrenewable resources. Grades 5-8

All About Natural Resources – Earth Science for Children Children learn about “natural” resources. Grades K-4 23 minutes

SOIL - Earth Science in Action 23 minutes / Students learn about the different types of soil, how soil is important for sustaining plant and animal life, the formation of soil and its components. Grades 5-8

All About Soil - Earth Science for Children 23 minutes / Children learn what components are needed to make the best soils for growing plants and discover the important role that the forces of erosion play in the creation of soil. A visit to a grade school showcases a unique program that uses lunch leftovers in the school's garden. Grades K-4

Soil from The Geography Tutor series Answers questions that students ask concerning "Soil". Suitable for all ages. 19 minutes

All About the Water Cycle - Earth Science for Children 23 minutes / Discover the amazing process by which the Earth's water supply has been recycled over millions of years. Grades K-4

All About Weathering & Erosion - Earth Science for Children 23 minutes / Children discover how natural forces continually shape the visible landscape. Grades K-4

Surviving the Dust Bowl 55 minutes. This *American Experience* film presents the remarkable story of the determined people who clung to their homes and way of life, enduring drought, dust, disease – even death – for nearly a decade.

Weathering & Erosion - Earth Science for Children Students will examine natural structures around the world and see how weathering and erosion have affected them. 23 minutes. Grades 5-8