



Additional Kindergarten Science Resources

Materials include DVDs, videos, models, etc.

ANIMALS 2 X 2

Land and Water Snails

Reading Rainbow: Is This A House For Hermit Crab?

E REA

1 VHS videocassette 30 minutes, 4 hardback books, 1 teachers guide.

Explores animal habitats. Book titles: Busy, Busy Squirrels; Is This A House For Hermit Crab?; Spider's Web; Urban Roosts.

Marine Seashells

592 MAR

Collection of shells representing different gastropod and pelecypod families. Labeled. Titles: Olive Shell; Miter Shell; Nerite; Limpet; Bubble Shell; Hairy Triton; Turritella Shell; Sundial; Abalone; Augar Shell; Vase Shell; Lucine; Giant Clam; Scallop; Tellin; Cockle. One seashell model.

Mollusk Shells

592 MOL

Displays the five different classes of mollusks. Labeled. One mollusk shells model.

Big and Little Worms

Slither and Slime : and Other Yucky Things

590 SLI

1 VHS videocassette, 92 minutes (Each episode is 23 min.)

Summary: Young presenters explore sewers and the garbage in search of creepy -- leeches, cockroaches, and honey bees -- and slimy animals -- slugs, worms, octopus, frogs and roaches.

Note: preview this to find the sections relevant to Animals 2x2

Earthworm Dissection Model

592 EAR

1 model, 1 transparency, 1 teachers guide notebook.

A whole body earthworm model that shows internal and external anatomy.

Pillbugs and Sowbugs

Pillbugs

595.3 PIL

Pill Project: a guide to investigation. Includes a book with ideas for exploration.

General

Life Habitats: What's in your Backyard?

574.5

1 VHS videocassette 12 minutes

Looks at animal habitats that we often overlook in our own neighborhood.

Hands-On Science Library: Animals

597 HAN

Collection of books to enhance the ANIMALS 2x2 Hands-On Science kit. 25 hardback books, 1 paperback book .

Awesome Animal Builders

591.5 AWE

1 videocassette 46 minutes: sd., col. ; 1/2 in. K-5

See how animals build themselves shelters, nests and other habitations. Animals are able to carry out these construction projects with their teeth, claws, or whatever they have available

Bug City: House and Backyard Insects

595 BUG

1 VHS videocassette 23 minutes, 1 teachers guide.

Examines life cycles, habits, behaviors, and classifications of insects found in our homes and yards. Discusses characteristics of spiders, fleas, mites, termites, cockroaches, snails, slugs, earthworms, bees, moths, aphids, and more, and how they affect humans. Includes techniques used to collect small insects for study. Closed Captioned.

CHEMISTRY BEGINNINGS

Reading Rainbow: How to Make an Apple Pie and See the World

613 REA

1 VHS videocassette 30 minutes, 3 hardback books, 1 teachers guide

LeVar examines the science behind cooking.

Book titles: Edible Pyramid: Good Eating Every Day; How To Make An Apple Pie and See The World; What Food Is This?

Reading Rainbow: Archibald Frisby

500 REA

1 VHS videocassette 29 minutes, 9 hardback books, 1 teachers guide.

Takes a scientific approach to problem solving. Shows that with the right questions and some experimentation, an easy solution can be derived. Book titles: Archibald Frisby; I Wonder Why Soap Makes Bubbles; Science Magic Series (Air, Forces, Light, Magnets, Sound, Water); What Makes Popcorn Pop? Closed Captioned.

Reading Rainbow: Arthur's Eyes

E REA

1 VHS videocassette 30 minutes, 5 hardback books, 1 teachers guide

Arthur needs glasses to help him see. LeVar explores many different ways of perceiving the world - by using all his senses. Bill Cosby narrates the feature book and Maya Angelou reads a poem from ALL THE COLORS OF THE RACE.

Book titles: All the Colors of the Race; Through Grandpa's Eyes; Turn About, Think About, Look About; Arthur's Eyes; Is This a Baby Dinosaur?

All About the Senses

612.8 ALL

1 VHS videocassette 23 minutes.

Explains the five senses of the human body and how they work.

FABRIC

Clothing

646.4 CLO

1 VHS videocassette, 10 minutes.

Why is clothing a basic need? Where does it come from and what is it made of? As two lovable aliens examine these and other questions, young viewers are given a complete lesson in this very basic need which protects people from the weather. They are shown why it requires the help of other people who cultivate and weave natural and man-made fibers, to the tailors and sales people who sell the finished product.

Everybody Needs Clothing

646.34 EVE

1 videocassette, 18 minutes, + teacher's guide

Examines the importance of clothing and how clothes are produced around the world, covering natural and synthetic materials, and clothes for special purposes and occasions.

Reading Rainbow: Purple Coat

F REA

1 VHS videocassette 30 minutes, 4 hardback books, 1 teachers guide Every year Grandpa makes Gabrielle a navy blue coat, but this year she wants something new. Inspired by THE PURPLE COAT by Amy Hest and narrated by Jack Gilford, LeVar visits New York City's garment district and has a coat made especially for him. Students also visit the Fashion Institute of Technology.

Book titles: Pablo Picasso; Goat in the Rug; How a Book is Made; Purple Coat.

Joseph had a Little Overcoat

391 JOS

1 VHS videocassette 10 minutes + teacher's guide. K-3

A very old overcoat is recycled numerous times into a variety of garments.

Reading Rainbow: Patchwork Quilt

F REA

1 VHS videocassette 30 minutes, 3 hardback books, 2 teachers guides, 4 dittos, grade K - 5.

Book titles: Being Adopted; Two of the Them; Patchwork Quilt.

Narrated by Isabel Sanford, written by Valerie Fournoy and illustrated by Jerry Pinkney, tells the story of a young girl who learns the secret ingredient in her Grandma's special quilt of memories. LeVar discovers kids learning to make their own brightly-colored quilts at the Boston Children's museum, a hands-on museum where folk traditions are kept alive.

Pocket for Corduroy

E POC

1 VHS videocassette 20 minutes, grade K- 2.

Story of a lost teddy bear and its adventures in getting home. Based on the book by Don Freeman.

FROM SEED TO PLANT

Characteristics of Plants

580 CHA

1 DVD, 18 minutes.

This program takes young viewers to a banana plantation and introduces them to the parts of a plant; it showcases the life cycle of a bean plant, and visits a desert to discover the unique adaptation of a cactus. Discussion questions and activities.

Series: Science Clips for Children. Grades K-4

Magic School Bus: Goes to Seed

580 MAG

1 VHS videocassette 30 minutes

Ms. Frizzle's class explores gardens, plants, and insects.

How Seeds Get Here and There

582 HOW

1 VHS videocassette, 16 minutes

How did that weed get in the garden? Why do dandelions pop up in different places? How do plants spread from one place to another, even where there are miles of water in between? Seeds can't walk, or swim, or fly, or can they? Come with us on a fascinating field trip as our eight-year-olds discover how seeds move. One finds that even he carries a few hitchhikers. Another flies through the air on a dandelion seed. And they all take part in the "great seed chase".

What Do Seeds Do?

582 WHA

1 VHS videocassette, 11 minutes

Shows how a seed grows into a plant capable of supplying its own food and producing its own seed. Gives examples of corn, bean, maple tree, foxtail, and milkweed seeds.

Seeds! Seeds! Seeds!

E SEE

1 VHS videocassette, 15 minutes.

Buddy Bear learns about different kinds of seeds and their uses when he opens a package sent by his grandfather.

All About Plant Pollination: Fruit, Flowers, and Seeds

581 ALL

1 VHS videocassette, 24 minutes + 1 teacher's guide

Introduction to the processes of pollination and reproduction in plants, including the development of flowers, fruit and seeds.

Corn Life Cycle

630 COR

1 corn life cycle model. Grade Level: K - 12

Displays seed, seedling, small tassel. Immature ear is dissected to show silks and fruit, and ear sectioned to show damage done by earworm. Labeled.

Dicot Seed

582 DIC

1 dicot seed model

Exhibits a large buckeye dicot seed that has been germinated and opened to show structures. Labeled.

Diversity of Plants: Seed Producers

580 DIV

12 study prints. Grade Level: 1 - 12

Titles: Living Fossil; A Tree Study; A Strange Plant; Pampas Grass; An Early Bloomer; A Poisonous Plant; A Water Plant; A Cactus Twin; An Air Plant; An Insect Eater; A Plant Parasite; Living Stones.

Grains

630 GRA

1 grains model

Displays mature heads on sections of rice, wheat, rye, oats, corn, buckwheat, milo, and millet. Includes individual seeds. Labeled.

Seed Fruits

582 SEE

1 seed fruits model.

Displays twelve different types of fruit. Labeled. Titles: Sunflower; Maple; Pecan; Wheat; Apple; Pea; Cherry; Lily; Mulberry; Huckleberry; Blackberry.

What is a Seed?

580 WHA

1 cassette, 28 paperback books, 6 dittos, 1 teachers guide.

Examines different kinds of seeds, how they develop into plants, ways they travel. Includes read-along cassette.

PAPER

Reading Rainbow: Paper Crane

F REA

1 VHS videocassette 30 minutes, 3 hardback books, 1 teachers guide.

LeVar celebrates Japanese culture by visiting Gasho of Japan in Central Valley, New York. LeVar explores the ancient art of origami and the artistry of a Japanese vegetable carver. Special highlight, LeVar joins Soh Daiko, a Japanese dance group, as they perform the "Festival of the Drums". Book titles: Perfect Crane; How My Parents Learned to Eat; Paper Crane.

Did You Ever Wonder?

670 DID

12 VHS videocassettes 4 hours, 1 teacher guide.

Titles (approximately 20 minutes each): How Are Airplanes Made; How Are Cars Made; How Are Chocolate Bars Made; Where Does Coal and Electricity Come From; How Are Combines and Cereal Made; How Are Computers Made; How Does Conservation Work; How Is Paper Made; How Are Pencils and TV Shows Made; How Are Steel and Washing Machines Made; How Are Jellybeans Made; How Are Toy Trains Made.

How is Paper Made is the recommended segment.

Note: For older students; video without sound can work well.

How is Paper Made?

676.2 HOW

1 videocassette, 25 minutes

This program showcases the manufacturing of paper. Includes some history, fun facts and trivia.

Note: For older students; video without sound can work well.

WOOD

Woodworking

Whistlepunks and Sliverpickers

634.9 WHI

1 VHS videocassette 30 minutes, 1 teachers guide. *Note: This video is included with the Wood science kit.*

Examines logging in Oregon forests, sawmills and the replanting process. Excellent overview of the men and women working in forestry jobs. Includes definition of terms.

Related study of trees

Hands On Science Library: Wood

582 HAN

Collection of seven hardcover books.

Titles: From Tree to Table, Bruno the Carpenter, Tool Book, Be a Friend to Trees, Mighty Tree, Eyewitness:Tree, A Tree is Growing.

A First Look at Trees

582.16 FIR

1 VHS videocassette, 16 minutes + teacher's guide

Trees are the largest, tallest, and oldest of all living things. This introductory program describes the parts and processes all trees have in common and explains why trees are such an important part of our lives.

Holidays for Children: Arbor Day

394.2 HOL

1 VHS videocassette 25 minutes

Illustrates the need for maintaining natural resources. Relates the legend of Johnny Appleseed and the story of J. Sterling Morton, founder of Arbor Day.

I'm not an Alien! Exploring the Diversity of Today's Forest

634.9 IMN

1 VHS videocassette 23 minutes

Explores forests through the dreams of three kids after they encounter a mysterious man in the woods. Looks at forestry practices, the growth of trees and other plants, and the forest ecosystem.

Reading Rainbow: Once there was a Tree

E REA

1 VHS videocassette 30 minutes, 4 hardback books, 1 teachers guide

Explores the relationship among all living things and our dependence on trees for food, shelter and air. Book titles: Once There Was A Tree; Red Leaf, Yellow Leaf; Tree in the Wood; Tremendous Tree Book.

Reading Rainbow: Paul Bunyan

398.2 REA

1 VHS videocassette 30 minutes, 4 hardback books, 1 teachers guide.

Narrated by Buddy Ebsen, the incredible feats of America's best loved tall tale hero are recounted. Illustrated by Steven Kellogg. LeVar joins Smokey Bear for a trip to Maine, birth place of the Paul Bunyan legend. A visit to a reforestation area demonstrates the importance of conservation. Book titles: Paul Bunyan; Whale in the Sky; Legend of the Bluebonnet; Star-Spangled Banner.

A Tree Through the Seasons

582 ATR

1 cassette, 30 paperback books, 6 dittos, 1 teachers guide.

Follows a year in the life of an apple tree. Explores the tree's place in the environment and introduces the concept of photosynthesis. Includes a read-along cassette.

Trees: Nature's Coolers

582.16 TRE

1 VHS videocassette 15 minutes

Trees are really cool! It's fun climbing, swinging, or hiding behind trees. For children, trees provide a place of adventure and independence. But trees are more than nature's place to play; they are our breathing partners and natural air conditioners. If we removed too many trees, we might find ourselves a bit hot and slightly breathless.

Broadleaf Trees Group I

582 BRO

8 study prints

Titles: Red Oak; Mountain Ash; Quaking Aspen; Ohio Buckeye; Flowering Dogwood; American Elm; Sugar Maple; Weeping Willow.

Forest Community

574.5 FOR

12 study prints

Titles: Winter; Spring; Summer; Autumn; The Forest Edge; The Canopy; The Understory; The Shrub Layer; The Forest Floor; Tree Bark; Scavengers; Decomposers.

Trees

582 TRE

17 study prints, 1 paperback book.

Examines trees, forests and animal habitats. Discusses trees and history.

Related Study of Shelters and Houses

Let's Build a House

620 LET

1 VHS videocassette 26 minutes

Introduction to the basics of how to build a house: from architect to electrician.

Watch 'em Work: Kidstruction

307 WAT

1 VHS videocassette 25 minutes

Shows a variety of machinery used in the world of construction: bulldozers, steamrollers, wheel loaders and dump trucks.

Shelter

640 SHE

1 VHS videocassette, 10 minutes

Clever animation and live action explain the form and function of shelter, show how homes are constructed from tree to finished product and illustrate the importance of shelter to safety, solitude, family, and happiness. As the comical aliens continue their analysis of human shelters, young viewers also learn about the materials that go into the construction of shelters and watch as an architect's plan is transformed by several types of skilled laborers into a habitable shelter or home.

Everybody needs shelter

392.36 EVE

1 VHS videocassette, 14 minutes + teacher's guide

Through live action, pictures and animation, students learn important concepts about human shelter.