

## Science

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# Science

## Animal Life

### **Adventures of Bunny Rabbit - 2nd Edition**

11501009 11 Minutes 1-3  
VHS 1985 Encyclopedia Britannica  
A favorite of youngsters for nearly half a century, this all-new edition, photographed in full color, is an absorbing nature study and a charming wildlife adventure.

### **American Discovery: What is an Endangered Species**

11502477 26 Minutes K-3  
VHS 1997 Sunburst  
Defines "endangered", "extinct", "threatened" and "species". Documents ongoing efforts to protect one endangered species, the manatee. Also follows the steps environmentalists and wildlife experts took to protect the remaining bald eagles and restore them to their place in our natural world.

### **Animal Babies**

11501040 11 Minutes K-3  
VHS 1983 Encyclopedia Britannica  
Engrossing study focuses on the challenges faced by all new-born animals as they learn-with or without the aid of their parents-to-survive in an environment that is often harsh and perilous.

### **Animal Babies Grow Up - Revised**

11501042 10 Minutes K-6  
VHS 1983 Coronet Film & Video  
Illustrates how animals are born, and the stages they undergo as they are born, and as they develop. Important life science concepts include the extent of care given by mother, feeding habits of the young, and that while some may not look like their parents at birth, all grow up to resemble them.

### **Animal Behavior - Babies and their Parents**

11502135 12 Minutes 1-6  
VHS 1991 Coronet Film & Video  
All animals have babies, and no matter their size or shape, these babies need three things to survive and grow: food, shelter and protection. Most kinds of babies get some help from their parents. Mother crocodiles go a step further and watch their young for several weeks. Baby gazelles, deer, jackals and elephants need a lot of care from their parents before they are able to live on their own.

### **Animal Habitats**

25644 1-3  
Workbook 1992 Schaffer  
Discusses the theme of animal habitats throughout the curriculum.

### **Animal Hide and Seek - Camouflage for Beginners**

11501044 10 Minutes 1-3  
VHS 1969 Coronet Film & Video  
A game of hide-and-peek starts children on their study of camouflage. Animals hide most effectively when their coloring, patterns, or shapes blend with their surroundings.

### **Animals - Ways they Move**

11501059 11 Minutes K-6  
VHS 1956 Encyclopedia Britannica  
Pictures the different means of movement that animals use - hopping, running, crawling, climbing, swimming, gliding, and flying. Shown are bison, ostrich, kangaroo, rabbit, grasshopper, inchworm, snail, snake, eel, sea lion, flying squirrel and heron.

### **Animals A - Z**

11501695 15 Minutes K-3  
VHS 1988 National Geographic  
Youngsters travel through this animal alphabet with familiar and exotic animal friends.

### **Animals at Night**

11501045 11 Minutes 1-6  
VHS 1963 Encyclopedia Britannica  
Tells the story of nocturnal animals - how they differ in their physical characteristics and behavior from animals that are active during the day. Darkness and color are two of the factors which make night a time of activity for some animals.

### **Animals Eat in Many Ways**

11501619 10 Minutes 4-12  
VHS 1971 BFA  
Every animal has feeding habits and physical features that enable it to eat particular kinds of food. Watching different insects and animals eat, provides the viewer with insights into a great variety of adaptive mechanisms.

### **Animals Fun to Know**

20568 K-3  
Game 1986 Trend  
Can play different games to identify various animals

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## **Animals Hatched From Eggs**

11502130 11 Minutes K-3  
VHS 1970 Coronet Film & Video  
Warmly sympathetic narrator recalls a number of imaginary boyhood experiences as he introduces children to the idea of reproduction in animals, and shows how bird, reptiles, amphibians, fish and insects and some mammals hatch from eggs.

## **Animals in Autumn and Winter - 2nd Edition**

11501049 11 Minutes 1-6  
VHS 1983 Encyclopedia Britannica  
Here's an investigation of how animals prepare for winter and survive the cold. Explores migration, hibernation, food storage, and adaptation. Photographic sequences take the viewer under snow cover to observe small animals at work. Looks at a variety of bird species; migrating herd animals such as sheep and elk; predators such as wolves, coyotes, eagles, and hawks, and other animals such as badgers, beavers, rabbits, bison, bears, squirrels, and chipmunks.

## **Animals in Spring and Summer - 2nd Edition**

11501994 13 Minutes 1-6  
VHS 1983 Encyclopedia Britannica  
Close-up sequences filmed in the natural wilderness reveal how animals adapt to the yearly cycles of nature that govern their patterns of mating, breeding, and migrating.

## **Animals of Africa**

11501052 12 Minutes 1-8  
VHS 1978 Coronet Film & Video  
The continent of Africa is the home of innumerable varieties of animals. Exciting close-up photography captures 35 African mammals, birds and reptiles which represent a variety of habitats.

## **Animals of Asia**

11501053 16 Minutes K-6  
VHS 1980 Coronet Film & Video  
In addition to familiar animals such as tigers and elephants, viewers are introduced to exotic macaques, pangolins, mud skippers and the paradise tree snake.

## **Animals of Australia**

11501054 19 Minutes K-6  
VHS 1979 Coronet Film & Video  
A strikingly photographed guide to the diverse animal life on this island continent.

## **Animals of South America**

11501055 16 Minutes K-6  
VHS 1980 Coronet Film & Video  
Cut off from the rest of the world during eons of evolution, the animals of South America developed in unique ways. It became a continent of giants-giant anteaters, giant armadillos, and oversized otters.

## **Animals of the Arctic**

11501056 16 Minutes K-6  
VHS 1979 Coronet Film & Video  
Program chronicles the few glorious months each summer when the broad, treeless tundra of the Arctic bursts into life and an amazing variety of wild creatures roams the plains and seashores.

## **Animals of the Desert**

11502272 12 Minutes K-6  
VHS 1964 BFA  
Depicts wildlife of the desert. Emphasizes the need for adaptation to living with very little water and a great deal of warmth. Close-up views of animals are interesting for detail and accurate for establishing size and color relationships with their surroundings.

## **Animals with Backbones**

11501057 11 Minutes 4-8  
VHS 1957 Coronet Film & Video  
Through living examples and animation, pupils see the basic structural differences between vertebrates and invertebrates. Birds, fishes, amphibians, reptiles, and mammals are the vertebrates which are emphasized.

## **Animals without Backbones**

11501058 11 Minutes 4-8  
VHS 1965 Coronet Film & Video  
Nature photography points out the characteristics of the arthropods, spiny-skinned animals, mollusks, sponges, bag-like animals, and earthworms, and shows these animals carrying out some of their life functions.

## **Animals: Intermediate**

25654 4-6  
Workbook 1994 Teacher Created Materials  
Introduce students to the excitement of scientific discoveries and experiences with these hands-on activities that are designed to stimulate young minds.

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## **Animals: Primary**

25662 1-3  
Workbook 1994 Teacher Created Materials  
Introduce students to the excitement of scientific discoveries and experiences with these hands-on activities that are designed to stimulate young minds.

## **Baboon**

11501080 20 Minutes K-8  
VHS 1984 Encyclopedia Britannica  
Filmed in Tanzania's Ngorongoro Conservation Area, Baboon follows the daily cycle of a baboon troop as they wake up in the forest treetops, move across the grassland in search of food, and return to the forest at the end of the day. Presented without interpretive narration, it allows audiences of all ages a close-up look at the curious behavior of one of man's closest relatives.

## **Bat Kit - Grade K-3**

18011 - K-3  
Kit 2002 Bat Conservation of WI  
Contains a teacher's guide to help the educator share information about bats. Trunk also includes various information about the bats of Wisconsin, as well as many bat friendly books, videos, cassettes, puppets activities and even a bat house.

## **Bat Kit - Grades 4-6**

18012 - 4-6  
Kit 2003 Bat Conservation of WI  
Contains a teacher's guide to help the educator share information about bats. Trunk also includes various information about the bats of Wisconsin, as well as many bat friendly books, videos, cassettes, puppets activities and even a bat house.

## **Bears**

11501086 6 Minutes 1-3  
VHS 1981 Coronet Film & Video  
Features both adult and cubs from the "Zoo Animals in the Wild Series".

## **Beaver Family - 2nd Edition**

11501087 14 Minutes 1-8  
VHS 1982 Encyclopedia Britannica  
Filmed in the Rocky Mountains, this charming film pictures a beaver family as it interacts with its environment throughout the year. Following a quiet winter in their lodge, the beavers emerge in the spring to repair their dam and to teach their young the skills they need to adapt to their new environment. Work continues all through the summer and fall as the beavers secure their pond and gather food for the coming winter.

## **Care of Pets**

11501765 13 Minutes K-3  
VHS 1962 Encyclopedia Britannica  
Demonstrates how to care for canaries, tropical fish, cats, and dogs. Points out that their well-being depends upon proper feeding, grooming, shelter, exercise and training.

## **Cheechako's First Day**

11501165 8 Minutes K-6  
VHS 1978 Encyclopedia Britannica  
On a sunny, cool day in early spring, a four-month-old polar bear cub still wobbly on his feet, comes out of his den - under the watchful eye of his mother - to explore his new home in the Oregon Washington Park Zoo. The cub's reaction to the new surroundings and his first swimming lesson offer children a rare film experience. Viewers will see the gentle and subtle ways in which a mother polar bear cares for and trains her cub.

## **Desert Creatures**

11501235 10 Minutes 1-6  
VHS 1989 Encyclopedia Britannica  
Desert-dwelling creatures - the great horned owl, kangaroo rat, tarantula spider, ringtail cat, and sidewinder snake - have adapted in various ways to their harsh environment.

## **Dolphins in the Zoo**

11501247 10 Minutes K-6  
VHS 1979 Encyclopedia Britannica  
Many of us have delighted to the antics of dolphins in the zoo. But taking care of these animals involves much more than teaching them to perform tricks. Shot at Chicago's Brookfield Zoo.

## **Domestic Animals & Pets**

19949 K-1  
Manipulative- Instructo  
Contains animal cut-outs to develop understanding & recognition of domestic animals & pets.

## **Domestic Animals and Pets**

19905 1-3  
Flannel Board 1967 Milton Bradley  
Helps identify various types of pets, their needs and characteristics.

## **Farm Set**

19513 K-3  
Manipulative- Little Folk Visuals  
Felt pieces of farm animals.

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## **Habitats - Realm of the Tiger**

11501178 60 Minutes 7-12  
VHS 1998 National Geographic  
Introduces students to the complex life history of ecology of the tiger. Although the kit focuses on tigers, it also engages students in important concepts found in any science curricula.

## **Happy Little Hamsters - 3rd Edition**

7750387 13 Minutes K-4  
VHS 1989 Altschul Group  
This program shows the life cycle of a hamster which may be related to that of other mammals. It shows the birth of 8 hamster babies and how they grow. It shows how the mother is very busy keeping them in their nest. After 2 1/2 weeks, the baby hamsters are given away as pets to the children in the class.

## **In the Company of Whales - Gentle Giants of the Watery Realm**

11502354 90 Minutes 4-6  
VHS 1992 Teacher's Video  
Come travel in the company of the largest animals to ever live on earth - powerful creatures of extraordinary grace and intelligence - masters of a watery realm where they have existed for over 20 million years. This is a compelling and personal journey with Dr. Roger Payne into the whale's noble domain. This spectacular motion picture reveals phenomenal whale encounters never before captured on film.

## **It's a Badger's World**

11501447 12 Minutes 1-6  
VHS 1980 Encyclopedia Britannica  
A fascinating look at a badger family-shows how the mother cares for her young by teaching them to hunt and protect themselves against predators and how the cubs must depend on their own instincts for survival.

## **Jane Goodall - My Life with the Chimpanzees**

11501225 60 Minutes 7-12  
VHS 1990 National Geographic  
In the summer of 1960, 26-year-old Jane Goodall set out for Africa. Her mission was to find and observe an elusive tribe of chimpanzees. Today, almost three decades later, Jane has grown from a stranger to the chimp's loyal friend and strongest ally. Her lifelong dedication to the study of chimpanzees has helped to identify them as man's closest relative. This extraordinary woman shares her personal story of the triumphs and trials that come with leading a life in the wild.

## **Learning About: Deer**

11501497 13 Minutes 1-6  
VHS 1981 Encyclopedia Britannica  
After giving birth to two fawns in late spring, a mother deer nurtures her newborns as they learn to adapt to their environment. Examines the fawns' major stages of development and captures their playful movements during their first summer in the tall grasses of the meadow. Shortly after the late-summer mating ritual, the mother deer is seen returning to her young to lead them to winter retreat within the protective forest.

## **Magnetic Pet Shop**

19980 K  
Manipulative- Smethport Specialty  
Move magnetic pieces around on the playboard to create an endless combination of scenes.

## **Magnetic Pets**

18822 1-3  
Kit 1965 Instructo  
Pictures of pets and where they live.

## **Magnetic Zoo**

19985 K  
Manipulative- Smethport Specialty  
Move magnetic pieces around on the playboard to create an endless combination of scenes.

## **Moms and Babies Fun-to-Know Puzzle**

14045 K-3  
Puzzle 2006 Trend  
Colorful photos help children learn to identify adult and baby animals. Format adapts to abilities and features interlocking pieces with photographs for easy recognition and retention. Sturdy, durable pieces with self-checking design.

## **Pandas - A Gift from China**

11501643 14 Minutes 1-6  
VHS 1974 Encyclopedia Britannica  
Black, white, and furry all over, Ling Ling and Hsing Hsing are two rare giant pandas presented as a gift to the United States by the People's Republic of China in 1972. Camera records the pandas at the National Zoological Park in Washington, D.C. The pandas twist themselves into balls and knots, roll about, and munch bamboo. Reveals the people and jobs that are important to the efficient and humane operation of zoos.

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## **Pond Animals**

11502695 30 minutes K-2  
VHS 1993 100% Educational Videos  
Narrated from the point of view of a dragonfly, frog, duck, and salamander, the program follows pond animals from infancy to young adulthood. Watch these pond animals grow, share their adventures, and learn about their fascinating world.

## **Press Out Farm Friends**

17032 K-3  
Book 1987 Longmeadow Press  
is a storybook.

## **Sea Animals Thematic Unit**

15041 K  
Workbook 1993 Teacher Created Materials  
This workbook is based on the following pieces of literature: The Whale's Song, Animals of Sea and Shore. This reproducible resource is filled with ready-to-use lessons and cross-curricular activities. Also included are management ideas, creative suggestions for the classroom, and a bibliography.

## **Timber Wolf in Wisconsin and Upper Michigan**

1250001 19 Minutes 4-12  
VHS 1992 WI DNR  
Looks at what kind of animal the wolf is, what we can learn from wolves, and what is being done to protect wolves. Follows the return of wolves to Wisconsin and the upper Michigan area.

## **Wild Animal Mothers and Babies**

19482 K-3  
Manipulative 1985 Little Folk Visuals  
Are 63 felt pieces in seven habitats of animals. Habitats include: forest, desert, Africa, Arctic, Australia, prairie, and rain forest.

## **Wild Animals - Washable Felt**

19665 1-3  
Manipulative- Little Folk Visuals  
Ages 2-7. Movable pieces. Hands on learning. 24 pieces.

## **Wild Animals Flannel Board Aids**

19904 1-3  
Flannel Board 1967 Milton Bradley  
Has 29 pictures to help name and classify different types of wild animals.

## **Wildlife for Tomorrow**

11501612 15 minutes 3-12  
VHS 1993 Council Wildlife Conservation  
Talks about the unendangered species such as the white tail deer, trumpeter swan, wild turkey, wood duck, pronghorn and elk. Shows what has been done and what continues to be done to ensure the continued growth of these species. How the wildlife managers are trapping them to re-locate them to better places.

## **World of the Whitetail Deer**

3350069 - 6-8  
Kit 1999 WI DNR  
Trunk 1 contains the curriculum guide plus supplemental materials for the activities. Trunk 2 contains a deer skeleton, skull, and hide for use in some of the activities described in the guide in the first trunk.

## **Zoo**

11502371 21 Minutes 1-6  
VHS 1974 Aims Media  
The National Zoo in Washington D.C. is the scene of this colorful documentary that answers commonly asked questions about how a zoo operates. Viewers experience this great zoo through the eyes of the viewing public and from behind-the-scenes visits with staff members as they perform their jobs.

## **Zoo - 2nd Edition**

11501978 11 Minutes K-6  
VHS 1979 Encyclopedia Britannica  
As a group of youngsters visit a zoo - taking photographs and drawing pictures of their favorite animals - viewers learn that some zoos exhibit animals in naturalistic surroundings, protect vanishing species, and require the special talents of many people to maintain their operation.

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## Birds

### **Baby Birds and Their Parents**

11501081 11 Minutes K-6

VHS 1981 Coronet Film & Video

Shows the types of homes birds make and the ways in which they protect and feed their young. Includes goose, killdeer, heron, hummingbird, flicker, owl, swallow, mourning dove, and tern.

### **Bald Eagles in Wisconsin**

1250002 16 Minutes 4-12

VHS 1992 WI DNR

The majestic bald eagle has been a symbol of greatness, but it almost disappeared from Wisconsin. In 1972, Wisconsin placed the bald eagle on the endangered species list. With protective measures, the bald eagle population has made a comeback. This video looks at eagle habitat, how eagles raise their young, and ways we can help to protect bald eagles.

### **Bird Homes**

11501114 11 Minutes 1-3

VHS 1957 Encyclopedia Britannica

Looks at different kinds of bird home, the habits in which they can be found and the types of materials used in nest building.

### **Birds - How and Where They Live**

11502466 12 Minutes K-6

VHS 1967 BFA

Shows that birds have many things in common; two legs, feathers, two wings, a bill, and most are able to fly. It also shows that birds are very different and it is this difference that makes it possible for specific birds to live in areas where others could not survive. Shows the feeding habits and body features that make it possible for birds to live where they do.

### **Birds - Revised**

11502176 14 Minutes 4-12

VHS 1985 Coronet Film & Video

From a songbird's musical notes to a seagull's raucous cry. The sounds of birds are as distinctive as the birds themselves. This program examines the amazing variety of birds and how they adapt to diverse environments in the air, on land and in the water. While each type has its own special characteristics, there are several ways in which most birds are alike.

### **Bird's Year - Variety and Change**

11501115 12 Minutes 4-12

VHS 1984 MTI Film & Video

"Birds fly south in the winter and return in spring to raise their young." Such a generalized statement denies the complexity and variety of the bird's year. Examination of several common species provides new appreciation of the vast differences in habit and lifestyles that occur not only from species, but throughout the passage of the year.

### **Looking at: Birds**

11501540 10 Minutes 1-8

VHS 1988 Encyclopedia Britannica

Illustrates ways in which birds differ from other animals in appearance, body structure and functions, and behavior. Close-ups of a variety of birds in different environments show some of the special ways in which adaptation takes place.

### **Penguins of the Antarctic**

11502374 12 Minutes 4-12

VHS 1972 Aims Media

A unique examination of penguins, which live half their lives at sea but rear their young on the Antarctic mainland. Expert swimmers, unable to fly, they walk and slide over the snow.

## Fish

### **Fish**

11502372 10 Minutes 1-3

VHS - Aims Media

The characteristics of fish are related to behaviors such as movement, caring for the young, and defense. Artwork, music, and vivid underwater photography make adaptation and behavior clear to young viewers. Words from primary reading programs are captioned for reading.

### **Fish that Nearly Drowned**

11501307 10 Minutes 1-3

VHS 1966 Encyclopedia Britannica

A Soviet-produced film in which a fish describes its life habits; how it builds its nest; and how an accident nearly caused its death. Also useful in primary science classes. The sound track is in English.

### **Looking at: Fishes**

11501541 15 Minutes 1-8

VHS 1965 Encyclopedia Britannica

Observes basic life processes of fish - reproduction, growth, nutrition, excretion, respiration and behavior-and specific structural adaptations of performing these functions in their aquatic environment.

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## **What is a Fish? - Revised**

11501904 20 Minutes 9-12

VHS 1989 Encyclopedia Britannica

Fish were the first animals with backbones. Presents the course of fish evolution by comparing the main types of living fish. Examines modern bony fish, showing the physical features common to most fish, a variety of fish morphologies and behaviors, and a time-lapse sequence of a developing fish embryo.

## **What's it Like Where You Live?:**

### **Exploring Marine Ecosystems**

11502401 34 Minutes 4-8

VHS 1998 MBG Films

Integrate technologies easily into daily lesson plans. This set covers three areas: Temperate Oceans, Shorelines, and Tropical Oceans.

## Insects

### **Beekkeeping**

11502435 17 Minutes 2-8

VHS 1988 Hawkhill Associates

The life-cycle of a beehive from the viewpoint of a professional beekeeper. Suggestions also included for beginning your own hive.

### **Bees - Backyard Science - Revised**

11502264 12 Minutes K-6

VHS 1992 BFA

Shows a colony of bees and explains how such a colony is made up. The queen bee lays eggs that are tended in the hive and develop into adults. Each adult has a particular function in the hive. Shows the various classes of adult bees at work. Some are seen gathering pollen, and in the process, pollinating flowers.

### **Butterflies**

11501146 13 Minutes 4-8

VHS 1982 MTI Film & Video

Close-up look at butterflies to learn about their unique color patterns, temperature regulation, and wing forms. Butterflies are the most collected insects; their bright coloration makes them easy to notice. They are helpful in pollination and do not hurt people in any way.

## **First Film on Insects - Revised**

11501604 13 Minutes 1-6

VHS 1982 BFA

Using extreme close-ups of common and unusual insects, this film allows students to see the details of insect anatomy and behavior. Intended for young viewers, the lesson shows how to recognize insects, teaches the structure and function of their body parts, and introduces the harmful and useful qualities of insects.

## **Honey Files - A Bee's Life**

11502621 20 minutes 4-6

VHS 2001 National Honey Board

Journey inside a bee hive to learn more about bees, honey and pollination. You'll learn about the different types of bees and their various jobs. You'll meet some beekeepers and interesting characters as you study a bee's life.

## **Insects**

25123 4-9

Book 1994 Zoobooks

Discusses the life of a variety of insects.

## **Insects**

11502685 15 minutes 1-4

DVD 2000 100% Educational Videos

Students discover what characteristics make insects different from all other animals. Learn that there are more insects than any other kind of animal on Earth. Watch the ways that special body parts help insects meet their needs for food, water, air, and shelter. DVD features include on-screen teacher's guide and vocabulary plus chapter selections: identifying Insects; tree body parts; the exoskeleton; reproduction; comparisons; basic needs; and review.

## **Insects - Lovely and the Lethal**

11501439 23 Minutes 4-12

VHS 1980 Encyclopedia Britannica

Examines physical characteristics and reproductive processes of insects, and demonstrates their social structure, using a colony of termites as an example. Viewers learn how insects have evolved and adapted themselves and the role they play in the environment.

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## **Insects Activity Tub**

19742 1-3

Kit 2003 Lakeshore

Students witness the incredible metamorphosis of beetles firsthand, watch a real ant colony in action & more. This ready-to-use kit is packed to the brim with fascinating insect activities that span the curriculum - plus tons of materials designed to get your whole class excited about science.

## **Insects II**

25124 4-9

Book 1994 Zoobooks

Discusses the life of a variety of insects.

## **Insects that Help Us**

11501756 11 Minutes 1-8

VHS 1965 BFA

Many insects are helpful to us. Some carry pollen from one plant to another. Pollen helps plants to grow vegetables and fruit. Bees carry pollen and they also make a food which we eat. Insects, like ants, work the soil allowing air and water to enter. This helps plants.

## **Insects Thematic Notes**

25020 K-3

Book 1993 Schaffer

Is a whole unit on insects.

## **Monarch Butterfly Story**

11501598 11 Minutes 4-6

VHS 1967 Encyclopedia Britannica

Show close-up detail of its structure during various stages of its life cycle - egg, larva, chrysalis, and imago. Close-up photography shows a larva developing within an egg, the larva hatching and molting several times, the spinning of a cocoon and emergence of the adult butterfly. The migratory habit is also investigated.

## **Patterns in Nature - in the Garden**

14802 K-2

Cards 2008 Lakeshore

Children discover patterns in the world around them...with self-checking sliders that encourage kids to solve fun-filled science mysteries. Children examine the magnified image shown on the top card of each slider - trying to identify the wrinkles of an elephant, the bumps on a starfish and more. Once kids recognize the pattern shown, they just slide out the bottom card to reveal the complete image. Sliders measure 7 1/2".

# Dinosaurs

## **All About Dinosaurs**

15149 1-6

Workbook 1993 Scholastic

Is an activity book about dinosaurs.

## **Digging into Dinosaurs**

21455 7-9

Book 1984 National Wildlife Federation

Includes fun activities on how dinosaurs lived, how they adapted to their environments and how fossil clues help scientists solve mysteries about dinosaurs.

## **Dinosaur**

11502357 35 Minutes 4-6

VHS 1995 Teacher's Video

This colorful video proves that not every dinosaur was aggressive. The herbivorous were often as big as the fierce T-Rex, but they nibbled on leaves and kept to themselves.

## **Dinosaur and the Cosmic Collision**

11501241 28 Minutes 4-12

VHS 1987 Coronet Film & Video

Examines a remarkable new theory about the cause of their extinction, in which the first clue was the unexpected presence of a high concentration of iridium in an Italian hillside. Could this iridium be explained only by a collision of earth with some celestial object? The acceptance of a collision theory over alternate theories may depend upon verifying the existence of Nemesis, the death star. Major sequences are drawn from NOVA programs.

## **Dinosaur Learning Fun**

23753 K-3

Book 1987 Incentive Publications

Helps sharpen thinking skills, enhance creativity and develops school readiness.

## **Dinosaur Time**

15253 K-3

Book 1974 Weekly Reader

An easy-to-read introduction to eleven different dinosaurs--their size, their diet, the pronunciation of their names, and their distinctive characteristics.

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## **Dinosaurs**

11502627 16 minutes 4-7  
VHS 2003 Media Pro

Is part of the How & Why: Journey Through Nature, Science & History Series. Explains what time period dinosaurs lived and how they conquered Earth. Featured are the formation and excavation of fossils and how a dinosaur skeleton finding is prepared for its exhibition.

## **Magnetic Dinosaurs**

16807 K

Manipulative- Smethport Specialty  
Move pieces around on the playboard to create an endless combination of scenes. Promotes imaginative play.

## **Magnetic Dinosaurs**

19987 K

Manipulative- Smethport Specialty  
Move magnetic pieces around on the playboard to create an endless combination of scenes.

## **Human Body**

### **Beginning Again**

7750029 15 Minutes K-3  
VHS 1988 Journal Films

Two children talk with their mother about the expected new baby and listen to the baby inside their mother. Fetal development is shown and the heartbeat is heard. It says that all mammals have babies born alive, but some animals are hatched from eggs. It shows a cow birth, turkey hatched, caterpillar hatch and the life cycle of a sunflower. There is very limited vocal explanation. The conclusion is nothing lives forever but living things begin again by producing more like themselves.

### **Big Brother Blues - A Story About Birth**

11501890 30 Minutes 4-8  
VHS 1992 MTI Film & Video

Combines fact, humor and fantasy sequences to introduce young viewers to the subjects of gestation, birth, genetics and family relations. Your students will easily relate to 13-year-old Josh as he reacts to the news that he will soon have a little brother or sister. Feeling that he will no longer receive the attention of his family is a common concern of young people expecting a new sibling. Your students will be amused by Josh's fantasies of being ignored, left behind and pushed aside.

### **Biology of Man**

15063 1-6  
Book 1980 Quercus

Deals with the human body and the growth of man.

## **Body Parts**

16097 K

Game 2005 Follett  
These games challenge children to: interact with others, participate in a group activity, communicate through language, follow rules and directions, learn concept skills while having fun. Each zippered, durable-fabric case opens into a learning game. Each game includes: game mat, 1 die, 4 movers, full-color book, reproducible Home Practice Page.

### **Body Works: Body at Risk**

11501131 22 Minutes 4-8  
VHS 1982 MTI Film & Video

Examines the health hazards of cigarettes and alcohol and gives sound advice about drinking, driving and resisting negative peer pressure.

### **Body Works: Body in Motion**

11501136 22 Minutes 4-8  
VHS 1982 MTI Film & Video

Examines the sports teenagers play and how they can best equip their mind and body to have the most fun with the least injury.

### **Body Works: Bones and Structure**

11501126 22 Minutes 4-8  
VHS 1980 MTI Film & Video

Dr. Tim takes an inside look at the human skeletal system and the major bones of the body.

### **Body Works: Brain**

11501133 22 Minutes 4-8  
VHS 1982 MTI Film & Video

How does the brain process and retain information? Dr. Tim and his young helpers study the different parts of the brain and how they work together.

### **Body Works: Circulation**

11501127 22 Minutes 4-8  
VHS 1979 MTI Film & Video

Rare footage illustrates how individual blood cells pass through the capillaries as Dr. Tim and his helpers examine the heart - the strongest muscle in the body.

### **Body Works: Digestion**

11501128 22 Minutes 4-8  
VHS 1980 MTI Film & Video

Dr. Tim and his young helpers use models and fiber optics to study digestion process and how the body gets its vital nutrients.

# Science

## **Body Works: Ear**

11501134 22 Minutes 4-8

VHS 1982 MTI Film & Video

Dr. Tim examines the intricate ear structure and hearing process and demonstrates how smoking, noise pollution and certain drugs can damage the ear.

## **Body Works: Eye**

11501135 22 Minutes 4-8

VHS 1982 MTI Film & Video

Dr. Tim and his young helpers illustrate the function of the eye and how it gathers light and sends images to the brain.

## **Body Works: Movement**

11501129 22 Minutes 4-8

VHS 1980 MTI Film & Video

This lively program investigates the intricate teamwork between the brain, nerves and muscles that enables us to move.

## **Body Works: Nervous System**

11501981 22 Minutes 4-8

VHS 1982 MTI Film & Video

Explores the nervous system and the electrical impulses that flicker through the body's nearly half million miles of nerve fiber.

## **Body Works: Respiration**

11501130 22 Minutes 4-8

VHS 1980 MTI Film & Video

Microphotography reveals what happens chemically when air enter the lungs.

## **Body Works: Skin**

11501982 22 Minutes 4-8

VHS 1982 MTI Film & Video

Dr. Tim considers the protective functions of the skin. With his young assistants, he also explains the individuality of hair growth and fingerprints.

## **Bodytalk: Beating and Bleeding**

11501119 8 Minutes 1-3

VHS 1987 Encyclopedia Britannica

Why do we get tired after a long run? Why do we bleed when we get a cut? This video answers those questions through its look at the heart, the amazing, hard working organ that pumps blood throughout the body for nourishment and protection of disease.

## **Bodytalk: Breathing and Talking**

11501120 8 Minutes 1-3

VHS 1987 Encyclopedia Britannica

Besides learning the mechanics of the body's breathing system, viewers are shown how human speech is produced, and discover the basic causes of coughing, sneezing, hiccupping, and yawning. The video leaves youngsters with a good understanding of why everybody needs healthy lungs.

## **Bodytalk: Growing Old**

11501121 8 Minutes 1-3

VHS 1987 Encyclopedia Britannica

An appropriate conclusion to the Bodytalk series, this segment exposes youngsters to the physical and mental effects of aging. The video also poignantly describes what happens when our bodies stop talking - when, in other words, we die. But Growing Old ends on a positive note with the idea that a dead person lives in the memories and feelings of his family.

## **Bodytalk: In and Out**

11501122 8 Minutes 1-3

VHS 1987 Encyclopedia Britannica

Shows viewers the importance of food to maintaining good health. As they follow food through the human body, viewers learn about some of the ways our bodies talk to us: chewing, swallowing, digesting, burping, passing gas, and eliminating waste.

## **Bodytalk: Running, Jumping and Standing Still**

11501123 8 Minutes 1-3

VHS 1987 Encyclopedia Britannica

If we didn't have bones, muscles, and joints, we'd all be blobs who could do no more than ooze our way around. This creative video makes that point as it examines the many bones and muscles that keep us moving. The highlight of the program comes with playing of the catchy, sing-along song, "Everyone's Got a Skeleton".

## **Bodytalk: Sensing, Thinking and Feeling**

11501124 8 Minutes 1-3

VHS 1987 Encyclopedia Britannica

Jumping in response to a sudden clap of thunder, having a new idea, and enjoying the taste of a sweet apple - all of these activities are controlled by our brains. This Bodytalk episode explores our amazing control center, and illustrates how it directs our sense organs to help us learn, work and play.

# Science

## Bodytalk: Skin and Hair

11501125 8 Minutes 1-3  
VHS 1987 Encyclopedia Britannica  
Some of the questions that primary school students most commonly ask - Why do people have different skin colors?, Why do I get freckles on my nose?, and Why do we have hair on our bodies? - are entertainingly answered in this program. Viewers learn that the skin - the largest part of the human body - acts as a sensor, protector, and air conditioner.

## Cell Structure

11502039 30 Minutes 7-12  
VHS 1989 Encyclopedia Britannica  
Modern technology, including electron microscopy and autoradiography has enabled scientists to pinpoint where in the cell various "dynamic" chemical events occur and has revealed that the cell is far more internally complex and structurally organized than was earlier believed.

## Cells - A First Film

11502274 11 Minutes 4-8  
VHS 1970 BFA  
All cells have a nucleus, steaming material called cytoplasm, and a membrane. Plant cells have a tough outer covering, the cell wall. Living things may be one cell or many cells in size, but all living things begin life as a single cell.

## Child Grows - The First Year

11501892 25 Minutes 7-12  
VHS 1993 Learning Seed  
Video explains that we cannot predict when infants will crawl, roll over, take their first steps or say "mama," but the order in which these events happen is predictable.

## Circle of Life

7750265 8 Minutes 5-9  
VHS 1988 MarshMedia  
This video helps children understand that all living things go through a life cycle which includes birth, aging and death. It identifies the good and bad parts of aging and stresses the importance of relationships between older adults and children.

## Circles - Intimacy & Relationships

88082 12+  
Kit 1983 Stanfield  
Is a unique program to teach appropriate social/sexual behavior in interpersonal relationships for persons with special needs.

## Clone

11502679 60 minutes 7-12  
VHS 2002 National Geographic  
Explore the miraculous potential and frightening possibilities of genetic cloning as National Geographic's cameras reveal the history, controversy, and cutting-edge developments of a scientific breakthrough capable of literally changing the destiny of the human race. Witness the remarkable effects of the cloning revolution and explore the "brave new world" of the human cloning industry and its inherent controversy.

## Eye Model

16293 1-6  
Model - -  
Is a plastic eye model.

## Fertilization and Birth - 2nd Edition

7750320 15 Minutes 3-6  
VHS 1992 Churchill Films  
This is a simple, yet thorough introduction to human and animal reproduction. It says all living things reproduce their own kind and have a mother and father in the beginning. It covers fertilization in fish, ducks, dogs and humans. It says when a man and woman mate, sperm are deposited in the vagina. The stages of fetal development are shown through the baby's birth in animation. A live baby is shown when the umbilical cord is cut. It emphasizes that caring for a family is a great responsibility.

## Fetal Development - A Nine Month Journey

7750365 15 Minutes 9-12  
VHS 1988 Aims Media  
Beginning and ending with a live birth, this video covers development from fertilization to birth. It uses a combination of animation and fiber optics to show the growth from a single cell to a baby of millions of cells. It gives week by week changes and details the function of the placenta as it follows the nine month normal pregnancy. It includes some ultrasound pictures of fetal movement.

## Healthy Heart

11502097 13 Minutes 1-6  
VHS 1993 United Learning  
Design to familiarize children with the concepts of what the heart is, what it means to us, and how to take care of it. Focuses on the roles of proper nutrition, exercise and not smoking.

# Science

## **Human and Animal Beginnings III**

7750055 14 Minutes 1-4

VHS 1990 Churchill Films

This is an updated edition of Human & Animal Beginnings II. As with the original, it gives fundamental information about reproduction, birth, and development geared toward the perception level of 5-9 year olds. The vocabulary includes egg, sperm, fertilize, uterus, and birth canal. Changes in this new edition are more recent fashions, a male child instead of a female child holding the baby, and animated version of human birth rather than an actual birth.

## **Human Biology Lab Book**

18304 4-9

Book 1986 Quercus

Exercises that reinforce concepts & vocabulary presented in Human Biology Book.

## **Human Body**

25917 7-12

Kit 1990 Steck-Vaughn

Includes cells, organs, skeletal, blood, nervous system, food groups, safety and first aid.

## **Inside Me**

18002 4-9

Kit 1980 DLM

Is designed to provide students with activities which will help them better understand the functions of six basic systems of the human body.

## **Learning About: Cells**

11501496 16 Minutes 4-12

VHS 1976 Encyclopedia Britannica

Instead of viewing cells as mere building blocks of life, this film presents them as independent dynamic units. Through a combination of animation, photography, and electron micrographs, students can examine basic cell structure, and witness the miracle of cell division. In the film's highlights, a one-celled animal replaces its amputated parts and single cells continue to beat after their removal from a heart.

## **Look 'n Do: Body Awareness Activity**

### **Cards**

19897 K-3

Cards 1974 Trend

Provides a fun, unique approach to the learning of basic body concepts through the use of these 16 full color cards.

## **Look 'n Do: Body Parts**

17968 K-6

Cards 1975 Trend

Has 16 cards that provide a fresh approach to the learning of basic body parts.

## **Look 'n Do: Naming Body Parts**

19464 1-6

Cards 1991 Trend

Provides a fun, unique approach to the learning of basic body parts through the use of these full color cards.

## **Lungs and Respiratory System**

11501547 17 Minutes 4-8

VHS 1975 Encyclopedia Britannica

We can live for weeks without food, days without water, but only moments without air. Why is air so vital? Film uses diagrams, demonstrations, and microphotography to show how oxygen gets from lungs to blood to each and every tiny cell. There it transforms the food we eat into energy. Reveals the body's intricate system for filtering and purifying the air we breath - and how smoking and breathing industrial air pollutants can break that marvelous system down.

## **Me & My Body**

5550003 13 minutes K-2

VHS 1990 MarshMedia

Introduces students to the wonders of the human body: its key parts and how they move; how the heart, lungs and brain keep the body running; how the bones, joints and muscles hold it up & help it move, etc.

## **Mechanics of Life: Blood and Circulation - 2nd Edition**

11502248 8 Minutes 4-8

VHS 1990 BFA

The human body has millions of individual cells. Blood, flowing through the circulatory system supplies the cells with food and oxygen; it also carries away waste from the cells. This film examines some of the qualities of blood and the mechanics of the circulatory system.

## **Mechanics of Life: Bones and Joints - 2nd Edition**

11502249 8 Minutes 4-8

VHS 1990 BFA

There are over 200 bones in the human body. Bones provide anchorage points for the attachment of muscles, they shield and protect internal organs and provide form and support for the body. Examines the bones of vertebrates, and, in particular, humans.

# Science

## **Mechanics of Life: Digestion and the Foods We Eat - 2nd Edition**

11502251 8 Minutes 4-8  
VHS 1990 BFA

All living organisms need nourishment to live, grow and reproduce. For humans to thrive, food is necessary, but not just any food. A balanced diet must be processed by the human digestive system. Describes those foods and follows the actions of the digestive system as it passes through the body.

## **Mechanics of Life: Muscles and Movement - 2nd Edition**

11502252 8 Minutes 4-8  
VHS 1990 BFA

All animals must act upon and respond to the world around them. Their bodies have adapted to suit their individual life styles and the environment. Every move they make is achieved by using sets of muscles evolved for the purpose. Muscles alone do not make movement. In higher animals, they work with other interacting systems to produce the movements of life. This video describes some of those interactions.

## **Meiosis - 2nd Edition**

11501576 15 Minutes 7-12  
VHS 1980 Encyclopedia Britannica

Takes the viewer up close through the use of microscopic footage, concise animation, and artwork - to illustrate the complex and continuing process of meiosis. The role of meiosis in sexual reproduction in both plants and animals is highlighted, as well as the direct implications of meiosis in producing genetic variations.

## **Miracle of Life**

7750211 60 Minutes 9-12  
VHS 1982 Crown Video

This video was a "NOVA" program on PBS, for which it won an Emmy Award. World-renowned Swedish photographer Lennart Nilsson presents a spectacular look at the microscopic world of human reproduction. It shows the release of the egg from the ovary, follows sperm development and conception, and shows development of the embryo and fetus until the moment of birth.

## **Muscles - Their Structure and Function**

11501609 25 Minutes 7-12

VHS 1986 Encyclopedia Britannica  
Chris wants to build his biceps to impress his new girlfriend. But his older and wiser brother Ted patiently explains that his real goal should be complete physical fitness, not just muscularity. Ted shows Chris the three types of muscles and what each type does, and demonstrates how to develop endurance, flexibility, and cardio-respiratory fitness, conditions that are essential to maintaining the agility and strength of muscles.

## **My Blood, Your Blood: Elementary School Version**

7750296 24 minutes 1-6  
VHS 2000 Community Blood Center

Is an informational and educational look at the human circulatory system. Provides up-to-date information and creative strategies to help teach the science of blood.

## **My Blood, Your Blood: Junior/Senior High School Version**

7750295 28 minutes 7-12  
VHS 2000 Community Blood Center

Is an informational and educational look at the human circulatory system. Provides up-to-date information and creative strategies to help teach the science of blood.

## **My Body Through Language**

23901 1-6  
Workbook 1989 Teacher Created Materials  
Work sheets of various parts and functions of the body.

## **My Body, My Buddy - Healthy Fun**

11501442 15 Minutes K-3  
VHS 1993 Rainbow

Video games, computers, television shows - there are more sedentary diversions for children than ever before. Most children need little prompting to enjoy a rousing game of some sort. But, especially after a full day at school, too many are content to let their cartoon heroes do their exercise for them. "Couch Potatoes" start young. Medical science has firmly established links between sedentary life styles and a wide variety of health problems later in life.

## **Parts of the Body - Basic Skills Floor Puzzle**

14067 K-3  
Puzzle - Carson Dellosa

Is a 24 piece puzzle of 21 different parts of the body.

# Science

## **Project Explore: Body Systems**

18278 1-6  
Book 1985 Project Earth  
Covers the following systems: skeletal, respirator, circulatory, nervous, muscular & digestive/excretory.

## **Protists - Form, Function, and Ecology - 2nd Edition**

11501677 23 Minutes 7-12  
VHS 1985 Encyclopedia Britannica  
Human body is the ultimate multicellular organization - a wondrous machine. But another world just as complex is hidden from view - the world of protists. Using light and electron microscopes, Dr. Jerome Paulin guides us through the Kingdom Protista, which includes protozoa, algae, and the slime molds.

## **Respiratory System - 2nd Edition**

11501691 26 Minutes 7-12  
VHS 1987 Encyclopedia Britannica  
Exciting live-action shots and vivid animation show you how the body takes in oxygen and expels carbon dioxide. Learn the structures and functions of respiratory system by following the path of a single oxygen molecule. In conclusion, you'll see how smoking can devastate the respiratory system.

## **Skeleton - 2nd Edition**

11501739 17 Minutes 7-12  
VHS 1979 Encyclopedia Britannica  
Dramatic X-ray pictures, diagrams, and detailed close-ups of several types of bones aid viewers in identifying the structure, function, composition, and overall coordination of the skeleton in man and other animals.

## **Skeleton and The Bones Book and The Bones Book Gamebook**

20289 1-12  
Manipulative 1993 Exception Teaching Aids  
Includes a 12", 25 piece skeleton, a book filled w/ projects, experiments and facts: and a gamebook with activities, quizzes and puzzles.

## **Your Ears - 2nd Edition**

11501973 9 Minutes 1-3  
VHS 1989 Encyclopedia Britannica  
Young viewers probably know that the outer ear comes in a variety of shapes and sizes, but not all youngsters understand that the outer ear funnels sound waves into the ear while the process of actually identifying interpreting sounds takes place in the brain. Program explains the hearing process, showing the transformation of sound waves into nerve impulses that are interpreted by the brain as sound. The program also reaches several important do's and don'ts of ear care.

## **Your Eyes - 2nd Edition**

11501974 9 Minutes 1-3  
VHS 1989 Encyclopedia Britannica  
The human eye has long intrigued scientists and poets alike. This complex and delicate organ enables us to obtain more comprehensive knowledge of our environment than does any other sensory organ we possess. Video identifies the parts of the eye, how the eye works, and how the body functions to care for and protect the eye. Also explains methods to keep eyes healthy and precautions to take to avoid eye injury.

## Senses

### **Learning to Use Your Senses - 2nd Edition**

11501506 9 Minutes 1-3  
VHS 1989 Encyclopedia Britannica  
Uses varied experiences of a birthday party to teach school children about their five senses. Viewers learn to think about cake, cookies, ice cream and a game of hide-and-seek in terms of sights, smells, tastes, sounds and tactile sensations. Familiar setting and exciting format teach viewers how important their senses are and how they use them every day.

# Science

## Energy

### **Energy - A First Film - Revised**

11502471 9 Minutes 4-6

VHS 1970 BFA

There are many forms of energy. Heat, light, electricity, and chemical energy are forms of energy. Energy can be changed from one form to another. Most of the energy we use in any form originally comes from the sun. Green plants use the energy from the sun to produce materials such as sugars that we find useful for food.

### **Energy Does the Work**

11501799 11 Minutes K-6

VHS 1961 Coronet Film & Video

Using examples which appeal to the young child, this film explains that work whenever something is moved, that energy is what causes things to move, that energy can be stored. Emphasizes that proper food will supply energy for our bodies.

### **Energy from the Sun - 2nd Edition**

11501278 18 Minutes 7-12

VHS 1980 Encyclopedia Britannica

Solar energy may be one answer to the concerns of today's energy - conscious world. Takes a fascinating look at the various ways modern technology is used to capture and store the sun's energy - as an alternative to fossil fuel, and as the key to developing domestic energy sources for the future.

### **Power Puzzle**

11502445 20 Minutes 2-5

VHS 1994 MBG Films

Energy and the Environment. Teachers from all parts of the country have repeatedly told us that the concept of energy is very difficult to communicate to their students. Kids can't hold energy in their hands and they certainly can't see it. This mystery begins when the power suddenly goes out one night. Our four young detectives immediately get on the case. "What is energy, anyway?" "Can we really run out of it?" Our kids find the answers and so will your students.

## Life Science

### **Aging of Lakes - 2nd Edition**

11502038 18 Minutes 7-12

VHS 1988 Encyclopedia Britannica

Like all living things, a lake ages and eventually dies. Using both animation and breath-taking natural photography, this film illustrates succession, the natural process of lake aging. Viewers learn how climate affects aging, how aging is measured, and how pollution, construction projects, and water-diversion can shorten a lake's life by thousands of years.

### **Algae (- Revised Ed.)**

11501020 14 Minutes 9-12

VHS 1988 Encyclopedia Britannica

Algae love moist environments—from seashores to aquariums. This study goes where they thrive, examining their typical forms, assessing their structures and evolutionary development, and explaining their reproductive processes. The importance of algae to aquatic animals and to humans is clearly established.

### **Amphibians**

11501033 14 Minutes 4-12

VHS 1985 Coronet Film & Video

This program explores the hidden lives of toads, frogs and salamanders; their habitat, feeding, mating and growth habits, and their defenses.

### **Bacteria - 2nd Edition**

11501083 19 Minutes 9-12

VHS 1988 Encyclopedia Britannica

From the surfaces of plants, to the stomachs of animals, to the volcanic vents at the bottom of the sea, bacteria are everywhere. They are among most ancient, widespread, and adaptable of all life forms. Explores the structure, reproduction of lifestyles of these sometimes harmful but often beneficial organisms.

### **Basic Biology**

24330 4-9

Book 1992 Media Materials

Designed for students who need a direct simplified presentation of the important concepts of biology.

# Science

## **Beginning of the Food Chain - Plankton - 2nd Edition**

11501090 12 Minutes 4-6  
VHS 1987 Encyclopedia Britannica  
The ecology of all our oceans is dependent on microscopic plants and animals drifting in the currents just off our coasts. This film takes us beneath the surface to observe how these life forms-called plankton-grow and develop. We learn that phytoplankton (plants) and zooplankton (animals) occupy the beginning of the food chain that connects all marine organisms.

## **Biology**

16270 6-12  
Kit 2000 AGS  
Is a comprehensive life science program for your reluctant readers and those who require additional help to grasp basic biological and life science concepts.

## **Biology**

18119 6-12  
Kit 2004 AGS  
Comprehensive life science instructions in a lively, clear format. For reluctant readers and those who require additional help to grasp basic biological and life science concepts.

## **Biology - 2nd Edition**

16529 7-12  
Kit 1998 Globe Fearon  
Preserves a proven approach by representing key concepts in a clear, simple, logical manner to help all students learn the basics of biology.

## **Biology - Kingdom of Life**

21458 4-9  
Kit 1988 Quercus  
Is a text and workbook series. Covers plant kingdom, animal kingdom, humans and ecology.

## **Biology: Dynamic Processes**

24813 7-12  
Kit 1992 Globe  
Includes genetics, evolution and ecology.

## **Biology: Survey of Living Things**

24809 7-12  
Kit 1992 Globe  
Includes reproduction, plants and animals.

## **Classifying Living Things**

11501197 21 Minutes 7-12  
VHS 1985 Encyclopedia Britannica  
Through animation, three great theorists - Aristotle, Linnaeus, and Darwin return to life to discuss taxonomy, or systematics, the science of biological classification. In addition to reviewing the history of classification, the theorists explain that naming and classifying the approximately two million species of living things enable us to better understand and enjoy life's diversity.

## **Earthworm - Darwin's Plow**

11501261 13 Minutes 7-12  
VHS 1985 Coronet Film & Video  
In this fascinating program, Darwin's experiments are recreated to illustrate the natural cycle which earthworms return precious nutrients to the soil for plants to use.

## **Food - Energy From the Sun**

11501724 10 Minutes 4-8  
VHS 1966 BFA  
The energy which is needed by living things comes from the sun. Plants make food in their leaves, using the energy in sunlight. Extra food is stored in other parts of the plant. Animals get their food and their energy by eating green plants, or by feeding on plant eating animals. We get our energy from eating plants and meat from animals that feed on plants.

## **Fresh Water Pond - 2nd Edition**

11501334 17 Minutes 4-12  
VHS 1985 Encyclopedia Britannica  
Fish, plants, turtles, and beavers aren't the only forms of life in a fresh water pond. Tiny animals such as amoebae, euglena, and paramecia move below the water's surface, making up part of the pond's delicate ecosystem. Explores inter dependencies of the pond's large and small organisms, explains how different types of locomotion, feeding, and adaptations enable things to live in the pond.

## **Globe Life Science**

20269 7-12  
Workbook 1985 Globe  
Includes: interesting selections about scientific history, famous scientists, science news and science in everyday life.

# Science

## **Great Lakes Ecosystem**

11501449 20 Minutes 4-12

VHS 1995 Hawkhill Associates

The largest chain of fresh water lakes in the world has special ecological problems of its own. Explains some of the challenges the Great Lakes face today. Stressed are: the sea lamprey, toxic wastes in the lakes, the coming of zebra mussels and most recently, the ruffe fish. Successes in this continually changing ecosystem are also stressed in an interview with a Sea Grant specialist, Dr. Clifford Kraft.

## **Great Lakes: North America's Inland Seas**

11501367 23 Minutes 4-8

VHS 1971 Encyclopedia Britannica

Demonstrates the importance of the Great Lakes to the development and economy of mid-America. Shows how the lakes provided passage to new frontiers, how the St. Lawrence Seaway, providing direct access to the Atlantic, furthered growth of population centers, huge industries, and shipping enterprises. Stresses the need for conservation.

## **Groundwater**

11501248 26 Minutes 7-12

VHS 1984 UW-Madison

Importance of clean water for health of individuals and Wisconsin economy is the focus of this program. It reviews the efforts of industry to reduce the amount groundwater contamination so residents can have access to clean pure water UW-Madison.

## **Grouping Living Things**

11501368 18 Minutes 4-8

VHS 1985 Encyclopedia Britannica

Eighteenth-century Swedish botanist Carolus Linnaeus, the "Father of the Classification of Living Things" returns to life in cartoon form to host this charming film on the history and hierarchy of classification. In reminiscing about his contributions to science, Linnaeus emphasizes the importance of grouping like organisms and of giving each organism a scientifically useful name. With aid of Linnaeus' colorful examples, viewers learn the difference between genus and species, the basic levels of classification.

## **Heredity - 2nd Edition**

11501386 15 Minutes 7-12

VHS 1980 Encyclopedia Britannica

Microphotography and precise animation help visualize chromosomal mechanics and DNA as determinants of human genetic information. The film shows how knowledge of heredity and chromosomal aberrations is being used in genetic counseling (particularly in the process of amniocentesis) and also describes principles of population genetics.

## **Life Science**

22478 4-9

Workbook 1988 New Readers Press

Covers: biology, plants, humans, health and genetics.

## **Life Science**

21163 1-6

Kit 1987 Janus

Covers: green plants, animals, human systems and five senses.

## **Life Story of the Paramecium - Revised**

11501526 9 Minutes 4-6

VHS 1989 Encyclopedia Britannica

There are thousands of species of single-celled creatures. Discusses several of these species, explaining the variety of ways they eat and move, then focuses on one of the microscopic organisms - the paramecium. Shows how paramecia eat and presents experiments showing that they move away from light. Explains how paramecia excrete, breathe and reproduce.

## **Living Things are Everywhere**

11501533 11 Minutes K-3

VHS 1967 Encyclopedia Britannica

The story of a boy's discovery of the variety of living things to be found along a river bank and in the woods gives children an opportunity to test their own powers of observation. Stimulates interest in the study of plant and animal relationships.

## **Living Things Depend on Each Other**

11501536 11 Minutes K-3

VHS 1967 Encyclopedia Britannica

Focuses on the interdependence of all living things, showing how plants provide animals with shelter and how animals carry seeds and pollen so new plants can be formed.

# Science

## **Living Things in a Drop of Water - 2nd Edition**

11501537 12 Minutes 4-6  
VHS 1985 Encyclopedia Britannica  
Designed for the beginning science student, provides an excellent introduction to the qualities of life in simple organisms. With the help of animation, microphotography, and simple experiments, students learn to relate the qualities of unicellular organisms to those of more complex life forms, including humans.

## **Looking at: Amphibians - Revised**

11501539 11 Minutes 1-8  
VHS 1988 Encyclopedia Britannica  
Shows how amphibians are adapted to spend their early life in water and their adult life on land. Enables children to compare adaptations among different kinds of amphibians through use of frogs, toads, and salamanders.

## **Looking at: Mammals**

11501542 11 Minutes 1-8  
VHS 1967 Encyclopedia Britannica  
Some of the 2,000 animals on the Hollywood film set of "Dr. Doolittle" illustrate importance of animal classification. Students meet: Flowerface, the trained hippo; a giraffe that can be ridden; a chimp that smiles on command; along with unusual reptiles and birds. Ends with simple review and question period.

## **Looking at: Reptiles**

11501543 11 Minutes 1-8  
VHS 1980 Encyclopedia Britannica  
Differentiates reptiles from other creeping forms through body structure, respiratory system and manner of egg laying. Emphasizing adaptation, the film brings out the fact that reptiles were the first vertebrates to adopt a terrestrial life.

## **Mammals**

11501553 14 Minutes 4-12  
VHS 1986 Coronet Film & Video  
In the structure of their bodies and the size of their brains, mammals are the most highly developed animals on earth. Examples of three mammal groups - egg-layers, marsupial, and placental - introduces viewers to the common characteristics, how they have adapted to different environments and their differences in the development and parental care of their young.

## **Many Worlds of Nature - The Marsh**

11502307 12 Minutes 4-8  
VHS 1978 MTI Film & Video  
Looks at the food chains which flourish in the marsh ecosystem.

## **Microbiology: Classifying**

### **Microorganisms**

11501583 15 Minutes 7-12  
VHS 1985 Coronet Film & Video  
Staggering diversity of microorganisms becomes visible through the microscope, but a simple approach to classification makes sense of this mind-boggling array of life.

## **Microbiology: Imagining a Hidden World**

11501584 15 Minutes 7-12  
VHS 1985 Coronet Film & Video  
Defines the basic parts of a microscope and shows how to use it as a fundamental tool for investigating nature's hidden structures.

## **Mitosis - 2nd Edition**

11501597 14 Minutes 7-12  
VHS 1980 Encyclopedia Britannica  
Using outstanding microphotography, clarifying animation, and artwork shows how the basic process of mitosis takes place in plants and animals. Explanations of chromosome structure, and illustrations of actual laboratory techniques for making chromosomes visible, are highlighted. Included are depictions of ongoing cloning experiments with plants and amphibians.

## **Oceans - A First Film - Revised**

11502267 11 Minutes 1-6  
VHS 1992 BFA  
All the world's land is surrounded by water. This water is home of most of the world's life. Because it affects weather and climate and is a source of food, the ocean greatly influences all living things, including man.

## **Our Round Earth: it's Water**

11501639 11 Minutes K-6  
VHS 1971 Coronet Film & Video  
Views the oceans from hundreds of miles above the Earth, then plunge thousands of feet below the sea to study the ocean depths. We observe rain and other sources of fresh water above the ground, see underground sources coming to the surface, and ways men control and use water.

# Science

## Plants and Animals Depend on Each Other

11502139 12 Minutes 1-3  
VHS 1991 Coronet Film & Video

Plants and animals depend on each other for the things they need to stay alive. Animals depend on plants for food. Animals depend on plants for oxygen, too. Plants put vital oxygen into the air when they make their own food, while using the carbon dioxide that animals, in turn, breathe out. Plants also depend on animals and on other plants. Some plants help other plants by lifting them up to light. A few plants depend directly on animals for food, by trapping and killing them.

## Reptiles

11501689 14 Minutes 4-12  
VHS 1985 Coronet Film & Video

Recalling the Age of Reptiles, this program introduces the concept of "living fossils" and links reptile adaptations to their success as the first true land animals.

## Secret of the Pond

11502046 12 Minutes K-6  
VHS 1990 MBG Films

In the Secret of the Pond, a lively group of eight-year-olds follow their guide, Jim, to discover a number of interesting and unique life forms, and one of the oldest secrets in the world - the Food Chain. Combines the natural curiosity and excitement of real children, with computer animation and bright music, to give elementary school students an interesting and entertaining view of the Pond Habitat.

## Sesame Street: Learning About Living Things - Part I

7750269 7-9 Minutes K-3  
VHS 1987 Guidance Associates

Grover & Big Bird help students learn to distinguish between living things and things that are not, see how animals live and breathe, what they eat, and what protective covering they need to survive, and identify plants and what plants need to grow. A helpful teacher guide has suggested activities to accompany each part. Includes: "What's Alive & What's Not"; "Learning About Animals"; "Animal Care & Feeding"; "Insects and Birds".

## Sesame Street: Learning About Living Things - Part 2

7750270 7-9 Minutes K-3  
VHS 1987 Guidance Associates

Grover & Big Bird help students learn to distinguish between living things and things that are not, see how animals live and breathe, what they eat, and what protective covering they need to survive, and identify plants and what plants need to grow. A helpful teacher guide has suggested activities to accompany each part. Includes: "Animals Living In or Near Water"; "Learning About Plants"; "How Plants Grow".

## Snakes

11501748 15 Minutes 4-8  
VHS 1984 Coronet Film & Video

A wide-ranging survey of snakes that focuses on habits and structural and behavioral adaptations. Students observe how snakes move and feed, examining closely several of their distinctive features: scutes, tongue, teeth, fangs, jaws, pupils, and heat-sensitive pits.

## Spiders - Backyard Science - Revised

11502281 13 Minutes 1-6  
VHS 1978 BFA

Shows the various parts of the spider's body and explains how these parts function. Illustrates how the spider traps insects and other small animals on which it feeds. See how web-building spiders catch food and how the trap-door spider builds a nest and catches food. Shows the life cycle of the spider beginning with the creation of the egg sac.

## Spiders and How They Live

11502179 16 Minutes 4-8  
VHS 1991 Aims Media

The web is a spider's home and its hunting ground. While showing how to make a simple spider cage, two boys examine the activities of an orb web spider and discuss the body parts of spiders, the varied ways they use the silk they produce, the ways in which they eat, what they eat, and how they reproduce. A spider's cocoon hatches revealing tiny versions of the adult.

## Stage One Science Series - Busybodies

7750018 15 Minutes K-3  
VHS 1994 Altschul Group

Following a family as they bicycle through the park, this program illustrates some of the basic life processes of breathing, feeding, morning, resting and responding to surroundings. This is translated into an introduction to the systems of the body.

# Science

## **Totline Exploring Water and the Ocean**

15057 K-2

Workbook 1993 Warren

Simple, hands-on activity suggestions for: water table fun; learning with water (around the curriculum); a beginning ocean unit; and preserving the ocean environment.

## **Very Elementary Bats**

11502074 7 Minutes K-6

VHS 1992 Bat Conservation of WI

What most people think they know about bats isn't true. Bats are not flying mice, they are not blind, and they don't get caught in your hair. In truth, bats are the only mammals that can fly. This video will stimulate the natural curiosity children have about bats by introducing viewers to the diversity of bats, by helping to dissolve negative stereotypes, and by fostering an understanding of these mammals while encouraging an interest in nature.

## **Water**

11502028 20 minutes 5-8

VHS 2002 Visual Learning

Characteristics of various ocean zones, including variations in ocean temperature, salinity and depth are discussed. The different groups of marine life and adaptations of plants and animals are highlighted. Estuaries & various freshwater environments, such as streams, rivers, ponds and lakes are also explored.

## **Water**

11502233 10 Minutes K-6

VHS 1990 Barr Films

Animals, people and plants need water to live. The different forms of water are defined: solid, liquid, and gas, and simple experiments explain how water changes from one form to another.

## **Wetlands**

11501160 13 Minutes 4-8

VHS 1991 Aims Media

Wetlands are described, and their importance to life is explored. The shallow waters of ponds, creeks, and marshes are shown to be the habitat to beavers and frogs. Moose come to eat plants growing on the water bottom. People use wetlands as a source of naturally purified water and for recreation.

## **What's it Like Where You Live?: Exploring Fresh Water Ecosystems**

11502400 23-27 Minutes 4-8

VHS 1997 MBG Films

Real - world research for all students. Covers 3 areas: Ponds and Lakes; Rivers and Streams; and Wetlands.

# Environment

## **Air Defenders - The Quest for Clean Air**

18132 4-12

Kit 2003 WI DNR

The Air Defenders Educator's Kit gives you the resources you need to add information about open burning, air quality and respiratory health to your curriculum. Your students will go through rigorous training with hopes of someday becoming an Air Defender. Everything you need is in the kit.

## **Case of the Mysterious Neighbor**

11502447 30 Minutes 2-5

VHS 1994 MBG Films

Water: Resource and Pollution. David's new neighbor seemed to be acting unusual. She watered her plants before dawn, installed mysterious devices in her bathroom and had a strange way of cooking. Was she trying to poison someone? While checking it out, students learn all about water conservation and water pollution.

## **Conserving America - The Wetlands**

11502410 57 Minutes 3-8

VHS 1994 Filmic Archives

Due to development, over 50% of U.S. wetlands have been destroyed, disappearing at a rate of 300,000 acres per year. Explore swamps and marshes through the stories of the people working to protect wetland resources.

## **Crisis in the Atmosphere**

11502418 58 Minutes 7-12

VHS 1989 Library Video

Explores the serious global ramifications of ozone depletion, global warming and other environmental threats to the world. Learn how the polar ice caps could set off an ecological chain reaction of devastating consequences if they are allowed to melt. Examine the negative effects of Chernobyl, the Exxon Valdez spill and the burning of the rain forest in the Amazon.

## **Death of a Tree**

11502405 52 Minutes 9-12

VHS 1993 Films for the Humanities

In the life of a forest, birds, beasts, flowers, weather and seasons, life and death are all part of a continuing cycle. This program looks at the tree, the defining element of the forest in life. As it dies a natural death, some parts are still alive and performing the role of living plants; other parts are already dead. In death, the tree provides shelter for a surprising number of animal species and, in the very process of decay, provides life support for a host of other growing things.

# Science

## **Earth at Risk: Acid Rain**

11502434 30 Minutes 5-12

VHS 1993 Schlessinger Media

Acid rain forms in the atmosphere from chemical substances, created by the burning of fossil fuels. Fossil fuels are the product of organic remains which have not fully decomposed. When coal and oil burn they release sulfur and nitrogen oxide gases. Once released into the atmosphere sulfur dioxide and nitrogen oxides react with other airborne chemicals, water, vapor, and sunlight to produce sulfuric and nitric acids, the acids in acid rain.

## **Earth at Risk: Clean Water**

11502433 30 Minutes 5-12

VHS 1993 Schlessinger Media

Although oceans cover 70% of the earth's surface, only 3 % of the earth's water is fresh and is suitable for drinking, crop irrigation and most other uses. 75% of that is frozen in the glaciers and polar ice caps, so only 1% of the worlds water is available for human needs and that supply is being rapidly polluted.

## **Earth at Risk: Global Warming**

11502432 30 Minutes 5-12

VHS 1993 Schlessinger Media

The 1980's was the hottest decade in history and included 7 of the 10 hottest years ever recorded. Most scientists know that a global temperature rise of about 2-9 degrees Fahrenheit is a real possibility and the public should be warned that such an increase could cause drought, famine, rising sea levels, and a host of other environmental disasters over the next 100 years.

## **Earth at Risk: Ozone Layer**

11502430 30 Minutes 5-12

VHS 1993 Schlessinger Media

The natural atmospheric ozone layer which serves to protect life by absorbing radiation is most concentrated between 12 and 20 miles above the earth in a region of the earth's atmosphere called the stratosphere. Below the stratosphere is the troposphere the part of the atmosphere in which organisms breathe in which most weather takes place, above all of that above the portion that people recognize as being air is where oxygen is turned to ozone.

## **Earth at Risk: Recycling**

11502431 30 Minutes 5-12

VHS 1993 Schlessinger Media

The average American produces 3.5 pounds of trash per day, 24.5 pounds in a week, 1277.5 pounds per year, 89,425 pounds over a 70 year lifespan. Experts agree that every person on the planet generates at least a pound of waste each day, that means at least 5 billion pounds of new waste every day.

## **Following Nature's Plan**

11502175 11 Minutes 4-12

VHS - U.S. Dept of Agriculture

Addresses proper soil, water, and air management in the forest environment. Discusses linkage of good soil, water, and air management to forests, wildlife, fish, recreation, and to economic and environmental well being of society. Shows what can happen to forest resources and services when soil, water, and air are abused.

## **Forest Legacy**

11501328 20 Minutes 4-12

VHS 1999 HVS Productions

Traces history of the lumber industry in the Great Lakes region. The program looks at the economics, conservation, recreational and environmental importance of forests. Also looks at forestry today including the pulpwood industry and lumber industry.

## **GeoKit - Pollution**

11502411 28-34 Minutes 5-9

VHS 1996 National Geographic

This kit will help your students understand the scientific basis and social causes of global pollution. Contamination of air, water, and land is emphasized via 3 videos, accompanied by an extensive 100-page teacher's guide full of hands-on demonstrations, map exercises, and Internet excursions.

## **Great Lakes: Fragile Seas**

11502408 59 Minutes 7-10

VHS 1991 National Geographic

North America's freshwater seas have been subjected to decades of human abuse. Today, concerned individuals and groups battle to attempt to repair past damages and confront new environmental threats to these waters.

## **H2O TV: The Groundwater Video**

11502115 10 Minutes 7-9

VHS 1989 Water Environment Federation

Water and water quality are excellent topics to use in introducing students to the kinds of issues they will face as responsible citizens. This unit will focus on groundwater. It explains what groundwater is, how it becomes polluted, and how this pollution can be controlled. The unit emphasizes activities that invite students to think and talk about groundwater.

# Science

## **H2O TV: The Waste Water Video**

11502114 12 Minutes 7-9

VHS 1987 Water Environment Federation

Water and water quality are excellent topics to use in introducing students to the kinds of issues they will face as responsible citizens. As you approach this unit, keep in mind where wastewater treatment fits in the overall water quality picture. It is important that students understand that the way we treat our wastewater affects water quality in general and that they can take a personal role in protecting our finite supply of clean water.

## **Keeping Wisconsin Green & Growing**

11502957 - 4-12

DVD 2007 Wisconsin Dairy Producers

Wisconsin's environmental diversity is a strength no other state and few countries have. Protecting these beautiful lands is an important part of any business, especially those that make their living from it. Join us as we travel the state visiting with dairy producers, cheesemakers and other environmentalists to find out how they are all working together to protect Wisconsin's resources. We'll learn about the state's conservation leadership and how dairy cows are natural recyclers. We'll also explore new and exciting ways that dairy producers are generating renewable energy.

## **Learning About Natural Resources**

11502687 17 minutes K-4

DVD 2003 100% Educational Videos

Reduce/Reuse/Recycle are meaningless words to students who do not have a clear understanding of the importance of natural resources. In this engaging production students first learn about the three types of natural resources: inexhaustible, renewable, and nonrenewable. Next, identify the earth's wide variety of natural resources — air, water, oil, coal, gas, forests/trees, soil, rocks, plants and minerals. Last, see how we use each of these natural resources in every day life. DVD features include on-screen teacher's guide and vocabulary plus chapter selections: introduction; three kinds of resources; inexhaustible resources; renewable resources; nonrenewable resources; pollution; and reduce, reuse, recycle.

## **Lost Book Report Caper**

11502444 20 Minutes 2-5

VHS 1994 MBG Films

Waste Disposal: Nothing Ever Leaves This Planet.

Emily's book report is missing? In the frantic, but funny search that follows, our four young detectives learn that trash disposal is a vital element in our environment. In a neat bit of trick photography, they get a vivid answer to "Where did all that trash come from?" The journey of the trash is reversed and the kids are amazed to find "it didn't come from bad people, it came from us."

## **Mystery of the Dead Fish**

11502446 20 Minutes 2-5

VHS 1994 MBG Films

The Major Elements of the Environment. Why were Jason's fish dying? Students learn what elements make up a healthy ecosystem and what can happen to an environment when one of its parts is damaged or missing. Children realize that they, themselves, are an integral part of the environment and can be directly affected by what happens to the rest.

## **Restoring the Balance**

11502413 60 Minutes 9-12

VHS 1996 Films for the Humanities

Once a unique ecosystem, the Great Lakes are now home to many exotic species such as the Zebra mussel and the European ruffe. The U.S. and Canada, which share one of the world's largest freshwater fisheries, must now balance their needs with those of the latest invader species.

## **Saving Water - The Conservation Video**

11502113 8 Minutes 7-9

VHS 1990 Water Environment Federation

Water and water quality are excellent topics to use in introducing students to the kinds of issues they will face as responsible citizens. This unit explains the nature of our water supply, and its importance to individuals and civilization in ways such as manufacturing, transportation, and energy. It encourages students to look for ways to conserve water and share their conservation knowledge with others - fostering a sense of social responsibility in students.

# Science

## **Search for Clean Air**

11502407 57 Minutes 9-12

VHS 1995 Films for the Humanities

This program presents a clear, forceful, and thorough exposition of the problems of air pollution: its causes; its effects on forests, streams, and human health; and the issues involved in correcting the problems. Narrated by Walter Cronkite, the program shows the consequences of air pollution in Shenandoah National Park, the Adirondacks, New England, Ohio, California, Mexico, Canada, and Eastern Europe.

## **Surface Water Video**

11502116 10 Minutes 7-9

VHS 1988 Water Environment Federation

Water and water quality are excellent topics to use in introducing students to the kinds of issues they will face as responsible citizens. This unit will focus on surface water. It explains what surface water is, how it becomes polluted, and how this pollution can be controlled. The distinction between pollution created by people and pollution created by nature is made. The student's role in helping to protect our surface water is emphasized.

## **To the Last Drop**

11502412 60 Minutes 9-12

VHS 1996 Films for the Humanities

Describes how the U.S. and Canada plan to protect their future water security from a burgeoning population and a warming climate.

## **Understanding Chronic Wasting**

### **Disease in Wisconsin**

16259 12+

Book 2002 WI DNR

This is a first step to disease control. Outlines what is being done and what can be done to eradicate this disease from Wisconsin deer herds, including deer and elk farms.

## **Using Trees**

11501910 11 Minutes 1-3

VHS - WI DNR

Trees provide a beautiful landscape, homes for animals, food for animals and people. Trees manufacture oxygen which other living things need to stay alive. When trees die and decompose, nutrients are returned to the soil. One of the most important things we get from trees is wood. Wood is made into lumber that is used to build our homes and furnish them. Even artists use wood to create artwork for others to enjoy.

## **Why We Conserve Energy**

11501924 12 Minutes 1-6

VHS 1976 Learning Corporation

Everyone in the Land of the Scatterpods loved machines. One day a young Scatterpod finds the source of the "Black Soup" that makes the machines run. There, he also meets the "Witch of the Great Black Pool", who explained to him that the Scatterpods were using too much of the Black Soup to run all of their machines. The Witch comes to the Land of the Scatterpods and shows them how to conserve the "Black Soup" and how to make new machines that use water, wind and sun for energy instead of Black Soup.

## **Yellowstone in Winter**

11501971 26 Minutes 4-12

VHS 1983 Encyclopedia Britannica

A study of Yellowstone Park, with its geysers, hot springs, and contrasting land elevations, reveals how animals survive the park's severe winter climate by interacting with the unique features of their environment. Animal sequences include trumpeter swans, bald eagle, geese, hares, weasels, coyotes, squirrels, moose, and deer. Nature scenes illustrate the beauty of the park as it passes from autumn into winter, and finally into spring.

## **Farming**

### **Farm Family in: Autumn**

11501984 14 Minutes K-3

VHS 1967 Encyclopedia Britannica

Autumn is generally harvest time on the farm. As the days grow shorter and colder, the crops are gathered and either stored or shipped. It is a busy time on the farm, because the whole family has to contribute-the farmer employs the machines and tools of harvesting, the children help around the house and with smaller animals, and the mother may preserve some of the harvest crops for use through winter.

### **Farm Family in: Spring**

11501986 14 Minutes K-3

VHS 1968 Encyclopedia Britannica

Spring is a busy time on a farm, particularly on a dairy farm. Records these stepped-up activities: planting corn, tending the dairy herd, planning vegetable gardens, repairing and painting farm buildings. The younger members of the family are busy, too with 4-H projects, school and of course, their share of good times.

# Science

## **Farm Family in: Winter**

11501990 14 Minutes K-3  
VHS 1968 Encyclopedia Britannica  
The farm in winter confronts the restrictions of inclement weather. However, life continues at a vigorous pace as the farmer and his family complete the work of autumn's harvest and prepare for the new growing cycle in spring. Highlights both the farm and family in winter.

## **Farmers in a Changing America**

11501300 27 Minutes 7-12  
VHS 1973 Encyclopedia Britannica  
Air-conditioned combines, seeds coated with their own fertilizer and pesticides, and cows milked by machine in assembly line fashion would seem strange indeed to the farmers who first settled America. How farming has come to be a huge business enterprise is the fascinating story depicted in this film. Glimpses of projected developments suggest the change will continue to be a dominant factor on the farms of industrial America.

## **Trip to the Farm**

11502190 16 Minutes K-3  
VHS 1989 Churchill Films  
Matt Weissmann and his family live on a dairy farm. We spend a day with them as Matt tells all about the animals and work on the farm. The family feeds the hens, pigs, and ducks, milks the cows, cuts, bales and stores the hay. A milk truck comes and siphons the milk for a commercial dairy.

## **United Farm Workers - Wrath of Grapes (Spanish)**

11501354 30 Minutes 9-12  
VHS 1980 United Farm Workers  
Tells how farm workers have dedicated themselves to saving lives, theirs and yours. Each year, hundreds of thousands of people who labor in the fields are poisoned by toxic pesticides like those used in the cultivation of table grapes. The fruits of their labors are birth defects, cancer, chronic illness and death. Film shows, the danger of pesticides is not just to field workers.

## **Whole Farm Phosphorus Management Project**

11501292 19 minutes 12+  
VHS 2002 Chippewa Valley Tech College  
The project is a study about how much phosphorus gets into dairy products, cow feed and manure and what can be done to help farmers come up with a comprehensive nutrient management plan.

# Land

## **Ancient Forests**

11501862 25 Minutes 7-12  
VHS 1992 National Geographic  
Travel from Tongass National Forest and Prince of Wales Island in Alaska to northern California. Marvel at the ancient trees along the Pacific coast, one of the last reserves on Earth for these mighty giants. In recent years conflicting forces have clashed over the fate of these vanishing ancient forests. Logging companies argue that forest management techniques, including reseeded and promoting natural re-growth, negate the loss of old-growth forests.

## **Down on the Forest Floor**

11502051 15 Minutes K-3  
VHS 1991 MBG Films  
How does the forest floor get a new carpet every year? Why do spring wild flowers come up so early, and disappear so quickly? How do different plants and animals survive the changing seasons? This video answers these and other fascinating questions as our group of eight-year-olds explore the forest floor. A very catchy song, colorful artwork and the never-ending curiosity of our group help us teach that the forest is a constantly changing habitat.

## **Magnetic Farm**

19979 K  
Manipulative- Smethport Specialty  
Move magnetic pieces around on the playboard to create an endless combination of scenes.

## **Maple Trees**

11502247 15 Minutes 4-12  
VHS 1990 BFA  
Illustrates the process of how maple syrup is produced through the use of a touching personal story involving an elderly farmer and a young neighbor who desires to learn his lifetime secrets. Dedicated to the traditions of the farmer, Mason Parker, represents and to the preservation of a lifestyle which is rapidly disappearing from the American scene. An American Film and Video Festival aware-winner.

## **One Hundred Years of Wisconsin Forestry - 1904-2004**

18700 7-12  
Book 2004 Wisconsin Woodland Owner's  
This is the story of Wisconsin forests and who uses it, protect it and value it. It's a success story of how an important resource was brought back to vibrancy.

# Science

## **Volcanoes - Exploring the Restless**

### **Earth**

11501871 18 Minutes 4-12

VHS 1973 Encyclopedia Britannica

On-location photography and animated drawings illustrate volcanic phenomena in Hawaii, Mexico, Italy, and Iceland. Distinguishes shield, cinder cone, and stratovolcano by showing how each type of volcano is formed and how each erupts. Lava flows are contrasted in scenes showing pahoehoe and rough blocky aa lava.

Before-and-after footage of the 1973 destruction of Helgafjell on Iceland's Heimaey Island vividly documents the effects of volcanic eruptions on man and his environment.

## Plants

### **All About Plant Pollination - Fruit, Flowers & Seeds**

11502678 23 minutes K-4

VHS 2000 Library Video

Flowers are not only pretty, they are also one of the key elements in the process of plant pollination and reproduction that goes from flowers to fruits to seeds. In All About Plant Pollination: Fruit, Flowers & Seeds, young scientists learn about the different parts of a flower through the use of microscopic photography and detailed diagrams. See how a flower becomes pollinated when pollen lands on the stigma of the same type of plant. Learn about the structure of seeds and how they develop inside fruit. Find out how seeds are dispersed and how the process starts all over again when a new plant begins to grow. In a hands-on experiment, kids pollinate a flower themselves and then observe the development of its seeds and fruit.

### **Flowers at Work - 3rd Edition**

11501308 16 Minutes 4-8

VHS 1983 Encyclopedia Britannica

Animated sequences and live action photography the process of pollination and illustrate the functions of the flower's major parts. Closely examines the role of wind, insects, and water in achieving cross-pollination and shows how hybridization is used to control pollination in agriculture and horticulture.

### **How Do Plants Travel?**

11501398 8 Minutes 4-6

VHS 1989 Encyclopedia Britannica

Plants grow anywhere and everywhere - on land, at sea, and perhaps even in space. To grow in such diverse environments, plants have developed a variety of fascinating ways to propagate. Explores the various ways that plants disperse their seeds to compete with other organisms for nutrients and for territory and to extend the range of their species.

### **How Plants Get Food**

11502196 17 Minutes K-3

VHS 1991 MBG Films

Carbon Dioxide-Oxygen-Chlorophyll-Photosynthesis. Big words and a big idea. Explains and uses the words in such a bright, entertaining way, that after viewing, students will recognize them and the fundamentals of how plants make their own food. What's more, they'll find out why the process is important to the rest of the world.

### **How Plants Grow**

11502195 17 Minutes K-3

VHS 1991 MBG Films

Enthusiastic youngsters conduct a controlled experiment to find out how seeds germinate - look inside a lima bean to see what seeds are really like - follow a plant's life cycle from seed to seed again. Depicts a hands-on-approach that your class can view and discuss by itself, or use to precede and follow similar activities.

### **How Plants Grow**

11502683 19 minutes 1-5

DVD 1998 100% Educational Videos

Students will investigate and understand that in order for seeds to germinate and grow they must receive certain basic needs - food, air, water, light, and a place to grow. Next, they are introduced to the parts of a plant and learn how plants produce their own food. They also see how plants and animals depend upon each other for growth. DVD features include on-screen teacher's guide and vocabulary plus chapter selections: introduction; plant parts; plants make their own food; seeds; bulbs; reproduction; plants have needs; plant habitats and life cycle; plant adaptations; different kinds of plants; and fun facts.

# Science

## **How Plants Live in Different Places**

11502199 17 Minutes K-3

VHS 1991 MBG Films

Most plants need light, air water and soil to grow. But what about plants that live in places where those things are hard to get - like deserts or rain forests? In this video our eight-year olds explore both of these habitats. An informative captivating video.

## **How Seeds Get Here...and There**

11502198 16 Minutes K-3

VHS 1991 MBG Films

Come 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. They all take part in the "great seed chase". You'll probably get a few ideas for activities of your own.

## **Importance of Plants**

11502684 15 minutes K-4

DVD 2002 100% Educational Videos

Students see and learn how plants are the basis of food chains and how they are capable of making their own food. Shows different species of plants and identifies how different plants are used for food, oxygen, clothing, and building materials. DVD features include on-screen teacher's guide and vocabulary plus chapter selections.

## **Invasive Plants of the Upper Midwest**

19325 12+

Book 2005 University of Wisconsin

An informative, colorful, comprehensive guide to invasive species that are currently endangering native habitats in the region. Winner of the Wisconsin Council on Invasive Species 2005 Invader Crusader Award. This book will be an essential resource for land managers, nature lovers, property owners, farmers, landscapers, educators, botanists, foresters, and gardeners. Invasive plants are a growing threat to ecosystems everywhere. Often originating in distant climes, they spread to woodlands, wetlands, prairies, roadsides, and backyards that lack the biological controls that kept these plants in check in their homelands.

## **Laboratory Science Series: Plants**

80781 1-9

Workbook 1984 C.C. Publication

Develops cognitive skills through a process of daily discovery. Basic concepts are taught in sequential hierarchy along with vocabulary work.

## **Learning About the Fruits We Eat**

11501864 11 Minutes K-6

VHS 1970 Coronet Film & Video

Flowers on trees, bushes and vines develop into fruits we eat for energy and good health. Following fruits to markets, to the grocery, then to the table, we learn about the remarkable variety in appearance and taste.

## **Learning About: Flowers and Their Seeds - 2nd Edition**

11501498 14 Minutes 1-3

VHS 1983 Encyclopedia Britannica

Shows how each part of a flower contributes to the production and dispersal of seeds. Emphasizes the role of seeds as an important factor in the food supply and traces the progress of grain and fruit shipments from produce market to local grocers. Time-lapse sequences depict a variety of flowering plants as they complete cycle.

## **Magnetic Plant Growth**

17611 1-6

Game 1965 Instructo

Magnetic pictures of plant growth.

## **Origin of Land Plants - Liverworts and Mosses - Revised**

11501635 13 Minutes 9-12

VHS 1988 Encyclopedia Britannica

Traces evolution of plants from sea to land. Illustrates structural characteristics, reproductive processes, and adaptive mechanisms of liverworts and mosses, among earth's first land plants. Photo-micrography, macrophotography, and narration enrich and enliven the proceedings.

## **Photosynthesis - 3rd Edition**

11501648 24 Minutes 7-12

VHS 1982 Encyclopedia Britannica

A fascinating look at a process that is one the key energy producers for all life and the current research being done to expand its potential use. Examines chemical changes and structures involved in the process of photosynthesis and goes on to investigate how modern science is developing that process to produce food and provide energy alternatives.

## **Plant Kingdom**

25646 4-6

Workbook 1991 Instructional Fair

Covers parts of a tree, how a tree grows, and flowering plants.

# Science

## **Plant Life - Revised**

23430 4-9  
Kit 1986 Steck-Vaughn  
Covers: Flowers, grasses, cereals, trees, conservation and plant products.

## **Plants**

25134 1-6  
Poster 1979 Harcourt Brace  
Is a self-paced group of posters, with a picture on the front and a set of exercises on the back.

## **Plants - Grades 4-6**

25641 4-6  
Workbook 1984 Milliken  
Covers: plants including seeds, seedling germination and growth, roots and stems, flowers, trees, leaves and photosynthesis, and seasons and plants.

## **Plants - Intermediate**

25655 4-6  
Workbook 1994 Teacher Created Materials  
Introduce students to the excitement of scientific discoveries and experiences with these hands-on activities that are designed to stimulate young minds.

## **Plants - Primary**

25661 1-3  
Workbook 1994 Teacher Created Materials  
Introduce students to the excitement of scientific discoveries and experiences with these hands-on activities that are designed to stimulate young minds.

## **Plants and Life on Earth**

11502200 15 Minutes K-3  
VHS 1990 MBG Films  
Eight-year olds build a graphic illustration of our environment in a unique way. They put together a giant jigsaw puzzle, with each piece depicting an element of the environment. Explains in an entertaining way the importance of plants in our life. Students will learn from it.

## **Trees**

11502626 16 minutes 4-7  
VHS 2003 Media Pro  
Is part of the How & Why: Journey Through Nature, Science & History Series. Describes the various tree forms on Earth and explains how trees grow, how they have evolved over millions of years and how the forest supplies nourishment and life giving oxygen to both man and animals.

## **Trees are Terrific**

22229 1-6  
Workbook 1988 National Wildlife Federation  
Focus on what makes a tree a tree, the forest community, and people and forests.

## **What Do Flowers Do? A First Film - Revised**

11502286 12 Minutes 1-8  
VHS 1985 BFA  
Flowers appear in many forms, but most flowers are composed of petals, a pistil, and stamens. Flowers help the plant produce new plants. The union of pollen and egg leads to the development of a seed, which contains an embryonic plant and a supply of food to help it grow. Graphics of fertilization, information on ecology and on how flowers are valuable to people are also topics of this revision. A Norman Bean Film.

## **What Do Plants Do? A First Film - Revised**

11502282 12 Minutes 1-8  
VHS 1985 BFA  
Plants provide us with lumber to build houses, materials for clothing and food. They add beauty to the world around us. Plants are the only living things that can make use of the energy of the sun to produce materials that we can use as food. Plants are found everywhere, each adapted to live in a particular place. This revision shows how plants make food and carbon dioxide and how they adapt to different environments. A Norman Bean Film.

## **What Do Plants Need to Live?**

11501901 8 Minutes 4-6  
VHS 1989 Encyclopedia Britannica  
All plants need water to live and grow. Water contains dissolved minerals from the soil that serve as plant nutrients. Plants also need air and sunlight which they use to make their own food through a process called photosynthesis. This program examines all of the basic needs of plants and demonstrates some of the ways in which plants respond to the presence or absence of water, minerals, air and light.

# Science

## **What Do Seeds Do? A First Film - Revised**

11502284 12 Minutes 1-8  
VHS 1985 BFA

Seeds come in many sizes and shapes. However, they have certain common characteristics. Every seed contains stored food as well as the embryo from which the plant will grow. Carried from the parent plant by wind, water or animals, seeds grow into seed-producing plants when they are deposited in a suitable place. A Norman Bean Film.

## **What is Pollination? (A Sticky Question)**

11502197 16 Minutes K-3  
VHS 1991 MBG Films

If you tell a youngster about pollination, and maybe show a few still photos, will he or she understand? Perhaps. But show the real thing happening, and then let that youngster actually do it - and you've taught a lesson that he or she will never forget. Your students will have a ball watching the kids in this video pollinating plants - and observing from close up bees, butterflies, moths and hummingbirds at work.

## **What Plants Need for Growth?**

11501899 11 Minutes 1-3  
VHS 1982 Encyclopedia Britannica

Demonstrates the dependence of growing things on water, air, light, food, and warmth. Sequences show that plants fail under conditions that deprive them of these essential elements. An examination of agricultural practices illustrates ways in which the food supply is enhanced by controlling water and plant nutrition.

# Ecology

## **All About Rocks & Minerals**

11502677 23 minutes K-4  
VHS 2000 Library Video

Minerals are an important part of everything around us - from the pencils we write with to the airplanes in the sky. Even the Earth beneath our feet is packed solid with these essential building blocks. In All About Rocks & Minerals, children will discover the characteristics of minerals and see how different minerals make up different kinds of rocks: igneous, sedimentary and metamorphic. A visit to a lapidary shop examines some beautiful gemstones, while a fun, hands-on investigation demonstrates how solid crystals can be made from a liquid.

## **Changing Forest - A First Film - 2nd Edition**

11502470 13 Minutes K-6  
VHS 1989 BFA

Forests cover a large part of our world. Some forests change with the seasons. In the fall, the green of the summer leaves is replaced by the bright colors of autumn. Winter winds drop the flaming autumn leaves which form a carpet on the ground below. Trees stand bare, and most of the forest life becomes dormant until it is revived again by the warm sun of spring. Insects, and other animals have ways of adjusting to the seasons.

## **Charlie Brown Clears the Air**

11502103 10 Minutes K-3  
VHS 1979 American Lung Assn

Charlie and his old friends find themselves in the midst of a serious pollution problem. A deep sense of concern leads Charlie to action. The major goal of the film is to involve young minds in recognizing and understanding the vast problems of air pollution and the need to take action toward improving the environment.

## **Coniferous Forest Biome**

11501210 16 Minutes 9-12  
VHS 1969 Encyclopedia Britannica

Using the Northern boreal forest as a setting, the film illustrates conditions and life of the great climax forest area. Characteristics of the coniferous forest biome are clearly illustrated - the always green needle-like foliage of its dominant trees and the limited species of plants and animals because of the lack of favorable riches for their development.

# Science

## **Earth-Friendly Choices**

25667 1-6

Game 1990 Trend

You can make Earth a better place each day in your own way. These 27 cards show you how.

## **Ecology and the Environment - Ideas & Activities Across the Curriculum**

25643 4-6

Workbook 1992 Schaffer

Discusses the theme of ecology throughout the curriculum.

## **Ecology Thematic Unit**

24987 4-6

Book 1991 Teacher Created Materials

Is a whole language unit on ecology.

## **Environmental Issues - Intermediate**

25656 4-6

Workbook 1994 Teacher Created Materials

Introduce students to the excitement of scientific discoveries and experiences with these hands-on activities that are designed to stimulate young minds.

## **Forest Forever Park Pack**

14699 - 4-8

Kit 2000 WI DNR

Research the plants, animals and environmental conditions that affect the forest and learn about the major role trees play in shaping forest biodiversity and future.

## **Forest Habitat**

11502533 15 minutes 4-9

VHS 1999 100% Educational Videos

Visit deciduous and evergreen forests to see the plants and animals that make this ecosystem their home. Discover how living things change over time and adapt to their surroundings. Learn that living things depend upon their environment and upon each other to survive.

## **Forest Story - Restoring Wisconsin's Treasure**

11502597 25 minutes 12+

VHS 2000 WI DNR

Takes a look at the history of Wisconsin's forests, from the cut-over/burn-over era at the turn of the last century to today's sustainable forest management.

## **Learn to Recycle**

25660 1-3

Workbook 1993 Monday Morning

Contains activities and patterns for an ecology unit.

## **Let's All Recycle**

11501092 8 Minutes 1-6

VHS 1991 Aims Media

Woody Woodpecker, the official recycling mascot, explains the importance of the new "three R's": reducing what we throw away; reusing whatever we can; and recycling household items - like newspapers, aluminum cans, glass jars, and plastic bottles. Children will learn that everyone must recycle to save energy and protect our natural resources.

## **Look Inside a Rain Forest**

23966 K

Book 1994 Grosset and Dunlap

Is a Poke and Look learning book that talks about the plants and animals of the Rain Forest.

## **Nature's Recyclers**

11502010 12 Minutes K-6

VHS 1990 WI DNR

Helps young people learn about nature's recyclers, cycles in nature and the important role people must play in recycling our natural resources. Includes an activity guide that contains activities, games, crafts, songs and skits and a list of additional resources.

## **Preserving Forests**

11502406 23 Minutes 9-12

VHS 1995 Films for the Humanities

Every year, millions of acres of forest are destroyed by fire, insects, and overcutting. This program looks at various ways in which forest management and science can help preserve forests; the battle against fire and insect pests; and the attempts to improve tree stock by means of tree genetics, a promising new technique.

## **Protect Trees**

11501881 10 Minutes K-6

VHS - WI DNR

The forest is a valuable, renewable natural resource. It provides habitat for other living things. And is a great place for having fun. One of the most serious threats to forests is fire. It is everyone's job to protect forests.

# Science

## **Puzzle of the Rotting Log**

11502047 12 Minutes K-6  
VHS 1990 MBG Films

Our guide, Jim, poses an interesting puzzle to a group of lively eight-year-olds: "Trees have been living and dying on this earth for thousands of years, so why isn't the earth covered with dead trees?" Follow our enthusiastic group through the woods as they discover pieces that solve the puzzle, and learn about decomposition and nature's recycling system. Share in the fun and excitement as the group discovers the decomposers - fungi, worms and bacteria - and how new life springs from decomposed matter.

## **Recycle Rex**

11502082 11 Minutes K-6  
VHS 1993 Disney Educational

Is an animated program about a group of dinosaur friends who learn about recycling firsthand when the field where they play is in jeopardy of being turned into a landfill. Rex and his friends discover that by recycling their trash, reducing their waste and buying things that come with a minimal amount of packaging and reusing their toys, they will minimize the need for new landfills and keep their field.

## **Recycling - It's Everybody's Job**

11501344 20 Minutes 4-8  
VHS 1992 National Geographic

Students get down and dirty as they sort through family garbage for a class project. As they do, they begin to learn why recycling is the most logical solution to mounting garbage problems. It takes work, as the students discover, to separate trash into paper, metal, plastic, and glass. It's expensive for factories to turn these materials back into something useful. But the alternatives - using up our resources, cluttering the landscape with landfills - are far more costly.

## **Rotten Truth**

11502011 30 Minutes 1-6  
VHS 1990 Children's TV Wkshop

Where do smelly old sneakers, sticky soda cans and other yucky things go after you throw them away? Can you ever make nothing out of something? This 3-2-1 Contact Extra takes you on an adventure with cast member Stephanie Yu and some surprise guests - like the Tappin' Wrapper - to learn The Rotten Truth about garbage. Come along with Stephanie as she visits a landfill, leads a tour through the Museum of Modern Garbage, and much more.

## **Tropical Voyage**

11502018 15 Minutes 4-8  
VHS 1994 Save the Rainforests

Visit rainforests and learn about the importance of preserving the plants and animals found there. Save the Rainforest Inc. has established protected areas where conservation efforts are taking place. These areas are also being used as educational field laboratories for students and teachers.

## Weather

### **Atmosphere in Motion - Revised**

11501072 14 Minutes 4-12  
VHS 1987 Encyclopedia Britannica

Recent changes in the ozone layer have refocused attention on the importance of the atmosphere to life on our planet. Convection cells, the Coriolis Effect, the structure and composition of the atmosphere, and the invisible forces that keep the atmosphere in continuous motion are illustrated through demonstrations, laboratory models, and animation.

### **Atmospheric Science - Weather Systems in Motion**

11501075 14 Minutes 4-12  
VHS 1985 Coronet Film & Video

How do the great mid-latitude weather systems get started and how does their movement account for alternating storms and air weather? Clarifies the movement of air masses, compares cyclones and anti-cyclones and shows how wave in the upper atmosphere affect the development of warm and cold fronts.

### **Atmospheric Science: Clouds and Precipitation**

11501073 15 Minutes 4-12  
VHS 1985 Coronet Film & Video

Fascinating time-lapse studies reveal how clouds form and vanish, while satellite, aerial and ground-based photography convey basic information about cumulus, stratus, and cirrus clouds.

### **Atmospheric Science: Earth's Atmosphere**

11501074 15 Minutes 4-12  
VHS 1985 Coronet Film & Video

A breathtaking journey upward through the atmosphere reveals our remarkable planet and atmosphere's layered structure.

# Science

## **Clouds - Revised**

11502266 12 Minutes 1-3  
VHS 1992 BFA

Introduces primary grade pupils to a variety of observations they can make about clouds. Clouds may have many different shapes. These shapes change as clouds grow larger or dwindle away. Without clouds, there would be no rain, and without rain the land would be a desert. Because they bring the water that supports all life on land, clouds are important to man and to all life on earth.

## **Dress Boris Bear for the Weather**

16024 K-3  
Kit 1975 Current

Dress Boris in four different outfits for four different types of weather: sunny, rainy, windy or snowy.

## **Floods and Droughts**

19126 4-9  
Book 1985 3R'S

Contains activities to teach about floods and droughts.

## **Laboratory Science Series: Weather**

80783 1-9  
Workbook 1984 C.C. Publication

Develops cognitive skills through a process of daily discovery. Basic concepts are taught in sequential hierarchy along with vocabulary work.

## **Lightning and Thunder Case**

11501527 14 Minutes K-6  
VHS 1982 Learning Corporation

Tired of being terrorized by the Lightning and Thunder gang, the people of Prairie City capture the two villains and bring them to a stormy trial.

## **Project Earth - Weather**

16090 1-6  
Book 1981 Vocational Biographies

Includes precipitation, clouds storms, four seasons and forecasting.

## **Snow - A First Film - 2nd Edition**

11502268 12 Minutes 1-6  
VHS 1989 BFA

Moisture in the clouds freezes into tiny crystals of ice which become snowflakes. In this beginning video, we see the part snow plays in the changing seasons, in the formation of glaciers, and in the renewal of our water supply. In many locations, snow may be fun to play in and with. This second edition adds more specific information regarding the relationship of snow to ice, glaciers and avalanches, as well as its effect on nature, plants and animals.

## **Storms - The Restless Atmosphere**

11501786 22 Minutes 4-12  
VHS 1974 Encyclopedia Britannica

Often spectacular, and sometimes catastrophic, storms are intense transformations of energy in the earth's atmosphere. In this study of thunderstorms, tornadoes, and hurricanes, examines nature, structure, incidence, and consequences of these storms and then looks at the elaborate systems of detection, data collection, and investigate that meteorologists use to investigate storms.

## **Storms and Blizzards**

19125 4-9  
Book 1985 3R'S

Contains activities to teach about storms and blizzards.

## **Thermometers - How We Use Them**

11501882 11 Minutes K-6  
VHS 1964 BFA

The terms "degrees" and "Fahrenheit" are developed and related to our number system. Relates scientific information, motivates keener observation and search for detail.

## **Tornadoes and Hurricanes**

19127 4-9  
Book 1985 3R'S

Contains activities to teach about tornadoes and hurricanes.

## **Water/Sky Scene**

19508 1-6  
Manipulative- Little Folk Visuals

Contains: background felt piece of a meadow.

# Science

## **Weather**

25026 4-6  
Workbook 1991 Schaffer  
Includes simple activities, experiments and demonstrations designed to help understand basic science concepts.

## **Weather**

11502624 18 minutes 4-7  
VHS 2003 Media Pro  
Is part of the How & Why: Journey Through Nature, Science & History Series. Explains how the weather forms, the importance of the sun, air and water, and how weather forecasts originate from the observations of meteorological stations all over the world.

## **Weather**

20840 4-6  
Workbook 1984 Milliken  
Reinforces basic elementary concepts in the study of weather.

## **Weather - Changes & Measurement**

11502692 14 minutes K-4  
DVD 1999 100% Educational Videos  
Discover that weather is the condition of the air outside, and learn the words we use to describe weather: sunny, cloudy, rainy, snowy, hot, and cool. Understand that the weather may change from day to day, but general trends in weather can be seen from season to season. Learn how the sun warms the Earth and other ways that weather forms and changes. See how tools like thermometers, weathervanes, and rain gauges measure and record these weather changes. DVD features include on-screen teacher's guide and vocabulary plus chapter selections: intro; weather and earth; temperature; how temperature works; wind; and water.

## **Weather Activity Tub**

19743 1-3  
Kit 2003 Lakeshore  
Students explore & experiment with a variety of weather elements, from tornadoes to rain clouds. This ready-to-use kit is packed to the brim with fascinating weather activities that span the curriculum - plus tons of materials designed to get your whole class excited about science.

## **Weather Forecasting - 2nd Edition**

11501883 19 Minutes 4-12  
VHS 1975 Encyclopedia Britannica  
Traces the development of meteorology from a superstitious guessing game to a sophisticated and increasingly valuable science. Focusing on the work of a meteorologist in an actual weather station, shows how data from satellites, reports from weather all over the world, and around-the-clock observations are combined to give the most accurate possible prediction of a region's weather.

## **What Makes Clouds? - Revised**

11501911 15 Minutes 4-12  
VHS 1988 Encyclopedia Britannica  
Though it looks like an elephant or maybe a tiger, it's actually a billowing cloud, made up of tiny drops of water. This entertaining exploration takes you on a sky tour to observe the different kinds of clouds and how they form through condensation. Lab experiments illustrate the process and create "bottled" clouds.

## **What Makes Weather? - 2nd Edition**

11501913 14 Minutes 4-12  
VHS 1981 Encyclopedia Britannica  
Vivid satellite footage, helpful animation, live-action and time lapse photography show the working forces that produce weather. The film examines the movement of winds and air masses caused by the uneven heating of the earth's surface, the influence of water and land on air masses.

## **What Makes Wind?**

11501915 8 Minutes 4-6  
VHS 1989 Encyclopedia Britannica  
Wind is moving air. The experiments in this video demonstrate that differential heating of the atmosphere causes air to move. When the air above coastal land is warmer than the air above the ocean, wind blows from the ocean towards the land. Conversely, when inland air is colder than the air about the ocean, wind blows from the land towards the ocean.

## **Wild, Wet and Windy**

16719 K-3  
Book 1997 Scholastic  
Is jam-packed with facts & illustrations and true & false questions about weather.

# Science

## **Wind - A First Film - Revised**

11501281 12 Minutes K-3

VHS 1992 BFA

We cannot see the wind, but we can see what it does. As it moves over the city and countryside, it lifts our kites, dries the laundry on the line, and shakes our trees. It also powers windmills which pump water or generate electricity. Sometimes, the wind brings the clouds that make rain- and then carries the rain clouds away. It also makes ocean waves. The wind is also important to plant and animal life

## **Wind and What it Does**

11501937 10 Minutes 1-3

VHS 1989 Encyclopedia Britannica

Wind is moving air, and this film uses experiments to show how heat makes wind. Compared to higher latitudes, the Earth's equator gets more sunshine; consequently, the ground gets warmer. In places where the ground is warm, air gets hot and rises; in places where the ground is cold, air cools and sinks. This movement of air is wind. Describes gale winds, hurricanes, and tornadoes. Also shows how meteorologists use balloons and wind vanes to measure the wind.

## **Earth Science**

### **Continental Drift - The Theory of Plate Tectonics**

11501995 22 Minutes 7-12

VHS 1980 Encyclopedia Britannica

Is a comprehensive exploration of continental drift and its effect on the shapes and location land masses. Outstanding location footage as well as concise diagrams, maps, and animation help visualize various geologic phenomena such as rifting, faulting, volcanism, earthquakes, and ridge formations - all of which aid in outlining the theory which proposes that the earth's crust is made up of huge, slowly moving segments called plates.

### **Earth - Man's Home**

11501257 10 Minutes K-3

VHS 1970 Encyclopedia Britannica

Children will quickly grasp the concept that man's environment is actually small in relation to the vastness of the universe and earth itself. Man's speck of living space in the universe is Earth, yet even earth is not entirely "home" because most of it is ocean, and of the remaining surface - land only the green area is truly suitable for man's inhabitation.

## **Earth and Space Science**

14401 7-12

Binder 2007 PCI Educational

This is an abbreviated version of a traditional basal program, written at a low reading level. The 3.0 to 4.5 reading level combined with the sophisticated page layout and age-appropriate, up-to-date visuals make the program suitable for struggling readers. The full-color, 80-page Student Text features nine easy-to-read chapters. The text presents key earth and space science concepts in clear, simple language and includes full-color photographs and illustrations to support the text. Important vocabulary terms are defined and highlighted when they appear in the text. The 210-page, reproducible Teacher's Binder includes teacher demonstrations, lab activities, activity sheets, reviews, tests, and a complete answer key.

## **Earth in Change - The Earth's Crust - Revised**

11501254 14 Minutes 4-12

VHS 1989 Encyclopedia Britannica

Shows that the earth's crust is constantly being changed by the action of dynamic natural processes: erosion, folding, sedimentation, volcanic action, and earthquakes.

## **Earth Science**

24976 7-12

Book 1994 Schaffer

Includes: astronomy, weather, oceanography and geology.

## **Earth Science**

21299 1-6

Kit 1987 Quercus

Covers: Climate, weather, earthquakes, volcanoes, and glaciers.

## **Earth Science**

16268 6-12

Kit 2001 AGS

Provides easy-to-understand instruction on early, planets, atoms, elements, ocean and climate. This text is ideal for students who need science instruction that meets national science standards.

## **Earth Science**

18117 6-12

Kit 2004 AGS

From atoms to oceans, a world of science opens up for your students. Provides easy-to-understand instructions on Earth, planets, atoms, elements, oceans & climate. Is ideal for students and young adults who need science instruction that meets national science standards.

# Science

## **Earth Science**

21165 1-6  
Kit 1987 Janus  
Includes solar system, changing earth, weather and earth resources.

## **Earth Science: Geology**

24815 7-12  
Kit 1992 Globe  
Includes rocks and minerals, erosion and weathering and fossils.

## **Earth Science: Oceans and Atmosphere**

24817 7-12  
Kit 1992 Globe  
Includes atmosphere, weather, pollution and hurricanes.

## **Earthquake Below**

11501259 14 Minutes 7-12  
VHS - NASA  
Takes us to San Francisco, a city that lives in constant threat of earthquakes. Through a look back in time, we see how an earthquake shattered San Francisco in 1906. We learn how earthquakes are caused and see the fault systems that are prime causes of earthquakes.

## **Earthquakes and Volcanoes**

19128 4-9  
Book 1985 3R'S  
Contains activities to teach about earthquakes and volcanoes.

## **Earthquakes and Volcanoes - Revised**

11501662 12 Minutes 4-12  
VHS 1977 BFA  
Earthquakes and volcanoes often occur in the same areas around the world. These are areas where mountains form, folding the earth's crust and making cracks appear. We now understand that many regions of earthquakes and volcanic action are places where large plates that form the earth's surface are bumping together. The movement of these plates is associated with much of the violent actions of the earth's surface.

## **Evidence for the Ice Ages - Revised**

11501289 14 Minutes 4-12  
VHS 1988 Encyclopedia Britannica  
Geologists investigate the evidence for an Ice Age in North America, looking at massive stray boulders in the state of Washington, patches of polished and gouged rock - with rough parallel grooves from New York to California, and a huge deserted river channel in North Dakota. Through time-lapse photography, we see how a valley glacier in Canada moves over a two-year period.

## **Geology Discovery Box**

17878 - 2-8  
Kit 2003 Oshkosh Public Museum  
Geology has just become that much more interesting with the help of 39 different rock and mineral samples and 4 genuine fossils in this box. Some of the 20 minerals in this box are quartz, calcite, pyrite, magnetite and hematite. A few of the 19 rock samples are- basalt, chert, slate, pumice, dolostone and marble. Along with the specimens your students can conduct experiments on magnetism as well as scratch and streak tests. Meets Wisconsin Model Academic Standards, Earth and Space Science, E.4.1, 2 & 3. E.8.5.

## **Globe Earth Science**

19631 7-12  
Book 1986 Globe  
Includes: interesting selections about scientific history, famous scientists, science news and science in everyday life.

## **Laboratory Science Series: Our Earth**

80784 1-9  
Workbook 1984 C.C. Publication  
Develops cognitive skills through a process of daily discovery. Basic concepts are taught in sequential hierarchy along with vocabulary work.

## **Minerals and Rocks - 2nd Edition**

11501591 15 Minutes 7-12  
VHS 1979 Encyclopedia Britannica  
From broad mountain ranges and land we walk on to the depths of the ocean, the basic material from which this planet is comprised is rock. Tiny crystalline substances called minerals from which rock is comprised provides an endless and fascinating field of study. Investigates structure and composition of minerals and goes onto describe methods and instruments used by mineralogists in analyzing nearly 3,000 identified mineral species.

# Science

## **Our Living World - Fungi Kingdom**

11502373 13 Minutes 9-12

VHS 1996 Aims Media

Fungi were once considered part of the plant kingdom, but since they cannot perform photosynthesis they are quite different from green plants. This program covers the range of fungi species, from the commonly recognized mushrooms through molds and yeasts. While fungi are all heterotrophic, the program differentiates between those that are saprophytes and others that are parasites.

## **Our Round Earth: How it Changes**

11501636 11 Minutes K-6

VHS 1971 Coronet Film & Video

Just as waves can wash away a sand castle, water, wind, gravity and temperature changes can level tall mountains and carve deep canyons. Views of molten lava, earthquakes and giant cracks in the earth's surface are compared with demonstration using clay models to see other ways the earth changes.

## **Our Round Earth: it's Land**

11501638 11 Minutes K-6

VHS 1971 Coronet Film & Video

Shows land masses and landforms from a spaceship and airplane. Farming, mining, and lumbering reveal the importance of the land, while erosion and waste disposal emphasize the problems of conservation.

## **Our Round Earth: What it's Like**

11501640 11 Minutes K-6

VHS 1971 Coronet Film & Video

Looking at earth from the ground, then from a plane, and finally from a spaceship, reveals that Earth is so big, we have to be many miles away to see what it's really like. Shows major features of land, oceans, and the atmosphere, and their importance.

## **Planet Earth**

11502622 16 minutes 4-7

VHS 2003 Media Pro

Is part of the How & Why: Journey Through Nature, Science & History Series. Takes the student on an exciting journey around the world and presents the unique characteristics of the "Blue Planet" including the continents and a trip to the inner center of the earth.

## **Rock Cycle**

11501703 22 Minutes 7-12

VHS 1982 Encyclopedia Britannica

Examines the rock cycle as fundamental geologic process by which earth materials are formed and altered. It identifies the major types of rocks, and describes how they are affected by erosion, weathering, heat, and pressure. The rock cycle is shown through outstanding animation and dramatic photographic sequences that illustrate spectacular landforms.

## **Rocks and Minerals - Revised**

11501683 17 Minutes 4-8

VHS 1977 BFA

Demonstrations that students can repeat, coupled with macro and micro-photography, help students learn how rocks are formed, what shapes the rocks take, how the form of the rock helps us understand its history, and how minerals form rocks.

## **Rocks that Form on the Earth's Surface**

11502001 16 Minutes 4-12

VHS 1964 Encyclopedia Britannica

Designed to help students investigate sedimentary rocks - to discover where they come from, what they are made of, and how they were formed. Explores some of the ways in which sediments are produced, transported, accumulated, and hardened into sedimentary rock.

## **Rocks that Reveal the Past - Revised**

11502289 12 Minutes 4-8

VHS 1985 BFA

Layered, or sedimentary, rocks often contain fossils: the remains of animals and plants that were alive when the rocks were formed. Fossils enable scientists to reconstruct the life of the past. Sedimentary rocks in which fossils are found help scientists to learn about the sequence in which living things appeared on earth.

## **Story of the Woodland Stream**

11502049 15 Minutes K-6

VHS 1990 MBG Films

Where does the water in streams, rivers and lakes come from? Where does it go? What kind of effects does the water have on the earth and its inhabitants? Good questions. A group of eight-year-olds have a lot of fun finding the answers, as they explore a woodland stream with their friend, Jim. From the stream, the children learn basic facts about the water cycle and erosion.

# Science

## **Taking Care of Our Earth**

11502691 16 minutes K-4  
DVD 1999 100% Educational Videos  
Students learn to care about their environment with the help of four animated characters as they take a tour of a landfill. Natural resources are identified and shown as students learn how important it is to conserve them. They also discover how reducing, reusing, and recycling benefit our environment, and how air and water pollution can hurt it. DVD features include on-screen teacher's guide and vocabulary plus chapter selections.

## **Volcanoes**

11502623 18 minutes 4-7  
VHS 2003 Media Pro  
Is part of the How & Why: Journey Through Nature, Science & History Series. Follows the eruption of a volcano, from its birth right through to the aftereffects of such a magnificent natural phenomenon

## **Water - A First Film**

11502270 12 Minutes 1-6  
VHS 1989 BFA  
We live on a watery planet. About three-fourths of our world is covered with water. There is even water in the air. Where there is little water, the land is a desert, for plants and animals cannot live without water. We drink it, bathe in it, cook and water our lawns with it, play in it, and put out fires with it. Energy can be created by using water. Rain, snow, clouds and ice are other forms of water. Unfortunately, we also often waste and misuse water.

## **Water Cycle**

11502234 11 Minutes 4-12  
VHS 1991 Barr Films  
Viewers learn about the water cycle: water evaporates, forms into clouds, then falls as rain. Rain and nature both use rainwater cycled through underground streams: it is used by plants to transport food and by man in factories and cities. This program also discusses the danger of water pollution and unwise water management.

## **Water Cycle - 2nd Edition**

11501880 22 Minutes 7-12  
VHS 1980 Encyclopedia Britannica  
Stunning visuals illustrate the importance of the endless exchange of water between land, atmosphere, and sea. Evaporation, condensation, and effects of the water cycle on the climate and the land are closely examined.

## **Water Cycle - 2nd Edition**

11501880 22 Minutes 7-12  
VHS 1980 Encyclopedia Britannica  
Stunning visuals illustrate the importance of the endless exchange of water between land, atmosphere, and sea. Evaporation, condensation, and effects of the water cycle on the climate and the land are closely examined.

## **Astronomy**

### **America in Space - First 40 Years**

11502637 60 minutes 4-12  
DVD 1999 NASA  
From the original Mercury flights to the International Space Station and Mars, this program presents the complete saga of America's first 40 years in space.

### **Apollo 15 - In the Mountains of the Moon**

11501061 28 Minutes 7-12  
VHS 1989 NASA  
Story of the highly successful 4th lunar landing mission, includes details of the three lunar surface scientific expeditions, the experiments in lunar orbit and the dramatic return to Earth.

### **Apollo Moon Landing - Out of This World**

11502636 72 minutes 4-12  
DVD 2001 NASA  
From President Kennedy's challenge to Neil Armstrong's first step on the Moon, from the near disaster of Apollo 13 to the Lunar Rover missions, this historically accurate DVD tells of the story of mankind's greatest adventure. Witness inspiring liftoffs, the Earth from space and dramatic moments as the Apollo astronauts explore the alien landscape of another world.

### **Beginner's Guide to the Constellations**

11501089 12 Minutes 4-12  
VHS 1987 Encyclopedia Britannica  
To find your way among the stars, you need the help of the constellation Orion the Hunter. On this journey, use Orion and its stars as reference points to examine, identify, and enjoy the wonderful star patterns of a northern winter sky. Crisp photographs taken by powerful telescopes will give you a close-up look at some of the brightest stars.

# Science

## **Earth Science: Exploring Planet Earth**

11501256 20 Minutes 7-12

VHS 1979 Encyclopedia Britannica

Earth science embraces broad areas of study. Since ancient times, humans have tried to discover the secrets Earth. We have studied the motion of celestial bodies, made observations on volcanic activity, and dredged up rocks from the ocean. Acquaints viewers with the broad scope of earth science-examining major geologic features and processes, and showing the relationship of various aspects of this science to contemporary life.

## **Eclipses of the Sun and Moon - Revised**

11501264 10 Minutes 7-12

VHS 1989 Encyclopedia Britannica

Ancient Chinese thought an eclipse was caused by a giant dragon trying to swallow the sun. Although the causes of eclipses are better understood today, eclipses are still a subject of study and wonder. Using animation and photographs of actual eclipses, program explains how solar and lunar eclipses occur and how study of them has increased our knowledge of the earth, moon, and sun.

## **Exploring Earth, Sun, and Moon**

11502927 14 minutes 3-5

DVD 2006 Visual Learning

This DVD takes a scientific look at some of the important characteristics of the earth, moon, and sun. Differences and likenesses between earth, moon, and sun are discussed as well as how scientists explore these bodies. The main phases of the moon are addressed, as is the formation of tides. Terminology includes: gravity, atmosphere, lunar phase, tides, eclipse, high tide, and low tide. Includes 5-question video quiz and 25-page teacher's guide. Extra features on the DVD include, index, slides, glossary, English subtitles and an iMovie project.

## **Globes - 2nd Edition**

11502138 10 Minutes 1-6

VHS 1987 Coronet Film & Video

If you were a space-traveling creature and the first planet you visited was Earth, you might want to show people back home what the planet looked like. You could make a small model that showed the big land areas and make them lumpy where there were mountains. You'd make the big lands one color and big water another, probably blue. And if you found out the names of the oceans and continents and the names and borders of the countries on the continents and put all that on your model, do you know what you'd have? A globe.

## **History of Space Flight - Reaching for the Stars**

11502638 89 minutes 4-12

DVD 2001 NASA

From ancient Chinese rockets to Mercury, Gemini, Apollo and the Shuttle, from the science fiction of Jules Verne to the reality of exploring distant planets, you'll view space flight as never before.

## **Laboratory Science Series: Our Universe**

80785 1-9

Workbook 1984 C.C. Publication

Develops cognitive skills through a process of daily discovery. Basic concepts are taught in sequential hierarchy along with vocabulary work.

## **Mars - Past, Present, Future**

11502641 83 minutes 4-12

DVD 2001 NASA

Presents a highly detailed view of the planet itself, featuring the very latest images of the Martian surface. Best of all, it explores past, present and future missions to Mars, including new evidence of water on Mars.

## **Mars, the Red Planet**

11502640 - 4-12

DVD 1999 NASA

Explore Mars using the interactive Mars Map section. Over 700 detailed maps with zoom in/out and panning. The Art Gallery includes a Dolby Digital rendition of Gustav Holst's "The Planets" performed by Ryan Shore. Artworks from renowned Mars artists complete the Gallery.

## **Mercury, Exploration of a Planet**

11501577 23 Minutes 4-12

VHS 1974 NASA

The flight of the Mariner 10 spacecraft to Venus and Mercury is detailed in animation and photography. Views of Mercury are featured. Includes animation on origin of the solar system.

## **Moon & the Universe**

11502625 20 minutes 4-7

VHS 2003 Media Pro

Is part of the How & Why: Journey Through Nature, Science & History Series. Journeys through space and time towards the Moon and into the infinite depths of the Universe to discover the possible origins of our Universe, the landing on the Moon and plans for colonizing other planets

# Science

## **Moon...An Emerging Planet**

11501603 12 Minutes 4-12

VHS 1993 NASA

Reviews what we have learned of the early events in the history of the Moon in non-technical terms. It details the structural formation, volcanic activity and bombardment. It briefly compares the geology of the Moon with that of Earth and other planets.

## **Nature Scope - Astronomy Adventures**

19184 1-9

Workbook 1986 National Wildlife Federation

Includes five chapters: Look At The Universe, Our Solar System, Our View of Earth, Astrology Through the Ages, and Reaching for the Stars.

## **Our Home in Space**

11502688 15 minutes K-4

DVD 1999 100% Educational Videos

Singing puppets, colorful graphics, and NASA footage come together to teach students about the familiar sights in our sky. Learn about the importance of the sun, some characteristics of the Earth, what causes day and night and the change of seasons, and how the moon moves. Lastly, see the importance of telescopes in revealing the mysteries of our solar system. DVD features include on-screen teacher's guide and vocabulary plus chapter selections: introduction and song; objects in the sky; learning about our universe; faraway objects in space; earth; the sun and earth; moon and earth; and objects in the solar system.

## **Our Solar System**

11501641 5 Minutes 4-12

VHS 1992 NASA

Teaches names, orbital positions, and characteristics of the planets in our solar system. Animated and sung to a catchy tune. "My very educated mother just served us nine pizza pies."

## **Our Solar System Grades 4-6**

24995 4-6

Workbook 1991 Instructional Fair

Is a whole language unit on the solar system.

## **Our Sun and its Planets**

11502132 11 Minutes K-3

VHS 1970 Coronet Film & Video

A specially designed model, telescopic photographs and motion pictures help young astronomers learn what a planet, sun, and solar system are. Earth and eight other planets moving around the sun, form our solar system. They learn why planets shine and about physical features of the moon.

## **Planets**

11502358 51 Minutes 4-6

VHS 1991 Teacher's Video

Patrick Stewart takes your students on a tour of the universe. This video combines computer animation, NASA footage and rhythmic music to bring the solar system to life on your screen.

## **Planets & Space Travel**

11502628 18 minutes 4-7

VHS 2003 Media Pro

Is part of the How & Why: Journey Through Nature, Science & History Series. This episode follows the journey of a space shuttle into outer space to encounter the different phenomena of the Universe. Included is a look at the process of astronaut training to the arrival at a space station as well as a history of space flight.

## **Rocket Propulsion**

11501704 20 Minutes 7-12

VHS - NASA

A lecture demonstration on the principles of "action/reaction" different types of rockets and how they are controlled, staging of rockets, and demonstrations of solid and liquid fueled rockets.

## **Solar System**

23427 4-9

Workbook 1989 Media Materials

Provides an overview of the solar system, the nine planets, as well as asteroids, comets, and meteors.

## **Space Science - Comets, Meteors, and Asteroids - Revised**

11501767 12 Minutes 4-12

VHS 1986 Coronet Film & Video

Introduces the minor members of the solar system, born of the same great swirling nebula of gas and dust that gave birth to the sun and planets. The course of Halley's Comet is charted through telescopic photographs and space probes from its visit early this century to its most recent passage.

# Science

## **Star Gaze - Hubble's View of the Universe**

11502639 70 minutes 4-12  
DVD 2000 NASA

StarGaze brings the beauty and majesty of the Universe to your home direct from the Hubble Space Telescope. Has over an hour of the most incredible images of the universe you'll ever see, plus Dolby Digital and DTS surround sound music from 2002. Presents the beauty of the universe as seen from the Hubble Space Telescope, and provides in depth facts and details about the telescope and what it has found so far.

## **Universe**

11501859 30 Minutes 7-12  
VHS 1977 NASA

Narrated by William Shatner, the program explores almost inconceivable extremes of size and time - from vast islands of stars called galaxies, to subatomic particles; from cosmic events that occurred billions of years in the past to micro-cosmic events in the present that endure for only a billionth of a second. Dramatizes the mysterious and incredibly violent universe.

## **Using Space Resources**

11501863 14 Minutes 7-12  
VHS - NASA

Describes many possible future uses for space and explains how using space has potential benefits for mankind.

## **What is the Brightest Star?**

11501909 11 Minutes 1-3  
VHS 1986 Coronet Film & Video

A beautiful night sky inspires Wondercat to try to find the brightest star. His questions illuminate the difference between a planet and a star and he learns why the brightest star in the sky - the sun - can't be seen at night. Further questions reveal fascinating facts about the sun and its light: why there are shadows, how objects can be in their own shadow and how this fact explains day and night.

## **Zero Gravity**

11501977 15 Minutes 4-12  
VHS 1988 NASA

Dr. Owen Garriott explains the phenomenon of weightlessness, its causes and effects. Also examines application of Newton's laws of Motion in Zero Gravity environment.

## Physical Science

### **Air**

11502230 10 Minutes K-6  
VHS 1990 Barr Films

Explains air pressure and demonstrates how we can see what air does, even though we can't see the air itself.

### **Air - A First Film - 2nd Edition**

11502263 12 Minutes 1-6  
VHS 1989 BFA

Air is a life-giving blanket around the earth. All living things need air. Although it is all around us, air cannot be seen. We use it in many ways, and moving air brings us weather changes. Without air, life on earth would not be possible. Includes experiments demonstrating the weight of air, as well as many more examples of its importance.

### **Behavior of Matter**

11501097 15 Minutes 4-6  
VHS 1982 Encyclopedia Britannica

Viewers observe evidence of chemical changes in simple experiments and in illustrations of commonly occurring physical phenomena, such as the expansion and contraction of mercury in a thermometer and the dissolution of solids in liquids. Emphasis is on recognition of clues that help identify chemical changes - change of color, formation of gas, and changes in taste and odor.

### **Chemistry: Chemical Bonding and Atomic Structure**

11501167 23 Minutes 7-12  
VHS 1983 Coronet Film & Video

Program illustrates how the physical and chemical properties of elements and compounds are defined by the nature of the bonds that hold atoms together.

### **Chemistry: Elements, Compounds and Mixtures**

11501168 20 Minutes 7-12  
VHS 1983 Coronet Film & Video

From a tiny raindrop to the sea and from life processes to industrial processes, this program illustrates the basic types of materials that make up our world.

# Science

## **Chemistry: Periodic Table and Periodicity**

11501169 23 Minutes 7-12

VHS 1983 Coronet Film & Video

Clarifying animation helps to explain this structured way of organizing the physical and chemical properties of the elements.

## **Chemistry: Reaction Rates and Equilibrium**

11502302 21 Minutes 7-12

VHS 1983 Coronet Film & Video

Viewers learn that certain fundamental factors influence the rates at which chemical reactions take place. Some of these factors include the strength of the bonds that form a substance, concentration, and temperature. The latter two factors are explained in terms of the Collision Theory which involves activated complexes.

## **Chemistry: Reactions**

24831 7-12

Kit 1992 Globe

Includes matter, metals, oxidation and reduction.

## **Conceptual Physics Alive: Bloopers**

11502387 15 Minutes 9-12

VHS 1990 Arbor Scientific

In this terrific supplement, your students watch as Hewitt's carefully planned experiments go awry. With each unexpected, often humorous result, Hewitt challenges students to figure out "what went wrong", and encourages them to consider traditional laws in a new light.

## **Conceptual Physics Alive: Light and Color**

11502386 40 Minutes 9-12

VHS 1990 Arbor Scientific

The electromagnetic nature of light and the reason its speed changes when it passes through transparent materials are discussed. Several demonstrations illustrate the addition of different colors of light. The colors of everyday things such as the sky, sunset, and ocean are discussed.

## **Conceptual Physics Alive: Momentum**

11502385 50 Minutes 9-12

VHS 1990 Arbor Scientific

Newton's 2nd law is rearranged to the form: Impulse = Change in Momentum. A variety of everyday examples, such as bouncing, are used to support the impulse-momentum concept. The conservation of momentum is demonstrated with colliding carts on an air track.

## **Conceptual Physics Alive: Newton's First Law**

11502383 45 Minutes 9-12

VHS 1990 Arbor Scientific

The law of inertia and the concept of mass are introduced and supported with a variety of examples and demonstrations. The concepts of weight, cancellation of forces, and net force are also illustrated.

## **Conceptual Physics Alive: Newton's Second Law**

11502384 42 Minutes 9-12

VHS 1990 Arbor Scientific

The relationship of force, acceleration, and mass is illustrated with a variety of examples. The effects of friction on motion are shown using both sliding and falling objects.

## **Electricity - A First Film**

11501390 13 Minutes 1-6

VHS 1981 BFA

This film shows clearly how electricity works, how we can generate it, the many ways it helps us, and some of the facts about its effect on the environment.

## **Energy and Machines**

15016 K-2

Book 1988 Monday Morning

The activities in this book guide children to be good observers and to make conclusions based on their observations. It offers children the opportunity to explore basic science principles through hands-on experiments and to apply what they learn to the world around them. Covers: energy experiments; science and the curriculum; and science and the creative arts.

# Science

## **Explaining Matter - Chemical Change - 2nd Edition**

11501290 13 Minutes 4-8  
VHS 1982 Encyclopedia Britannica  
Computer-generated graphics and animation provide a basis for understanding how molecules build up and break down in the process of chemical change. This humorous, energetic film explains the inner structure of the atom, and shows viewers how the ability to predict chemical change allows for the creation of new substances.

## **Globe Physical Science**

25889 1-6  
Book 1986 Globe  
Covers: nature of matter, elements, compounds, mixtures, chemical reactions, nuclear change, nature of energy, work and machines, magnetism and electricity, and heat, light and sound.

## **Gravity - How it Affects Us**

11502007 14 Minutes K-8  
VHS 1960 Encyclopedia Britannica  
Demonstrates how the force of gravity can be used to do work, how gravity affects our daily lives, and how it would affect a human being in space or on other planets.

## **Hands on Science Matter And Energy**

17683 7-12  
Kit 1983 New Readers Press  
Soft cover workbook for junior high students at the fourth grade level.

## **Heat, Light & Sound**

25027 4-6  
Workbook 1991 Schaffer  
Includes simple activities, experiments and demonstrations designed to help understand basic science concepts.

## **Hidden By Time - Seeing the Physical World with High-Speed Cameras**

11502503 30 minutes 9-12  
VHS 1995 Physics Curriculum  
In the world of motion, many events simply happen too fast to be seen with the unaided eye. With the aid of high-speed cameras, physical events which normally go unnoticed come to life to produce extraordinary sights. High-speed images reveal the awe and wonder of the physical world and provide an intriguing introduction to the study of physics.

## **How Materials Change - 2nd Edition**

11502141 12 Minutes 1-3  
VHS 1990 Coronet Film & Video  
Investigator Alligator's exploration enables young viewers to develop a better understanding of this elementary part of physical science. Students will observe that some changes happen very quickly and look for evidence of those that take place slowly. Al's experiments illuminate how heating and cooling change a solid to a liquid and back again, how burning turns one material into another completely different material and why some substances undergo changes when mixed, while others do not.

## **Laboratory Science Series: Magnetism and Electricity**

80788 1-9  
Workbook 1984 C.C. Publication  
Develops cognitive skills through a process of daily discovery. Basic concepts are taught in sequential hierarchy along with vocabulary work.

## **Laboratory Science Series: Matter and Energy**

80789 1-9  
Workbook 1984 C.C. Publication  
Develops cognitive skills through a process of daily discovery. Basic concepts are taught in sequential hierarchy along with vocabulary work.

## **Learning About: Heat - Revised**

11501501 13 Minutes 4-6  
VHS 1988 Encyclopedia Britannica  
Through laboratory experiments and examples from everyday life, demonstrates difference between heat and temperature and illustrates molecular basis of heat, changes of state in gases, solids, and liquids, and the movement of heat through radiation, convection, and conduction. There is also a discussion about our dwindling supply of heat-rich fossil fuels.

## **Learning About: Light - 2nd Edition**

11501502 15 Minutes 4-8  
VHS 1976 Encyclopedia Britannica  
A series of engrossing demonstrations reveal the properties of light. Students discover how light travels; why light rays bend; and why the same primary colors produce white when light waves are mixed, but near-black when paint pigments are blended. The film ends with a look at recent technological breakthroughs, particularly the laser - the light that can penetrate steel.

# Science

## **Learning About: Sound - 2nd Edition**

11501503 17 Minutes 4-8

VHS 1974 Encyclopedia Britannica

Though sound is unseen, it has a complex physical nature.

Presents basics of sound, starting with its source, vibrations emanating sound waves. An oscilloscope visualizes the frequency and amplitude of sound waves.

An experiment with railroad tracks compares speed of sound through air and through metal. Explores both electrically synthesized and ultrasonic sounds. A discussion of noise pollution and ways to control it concludes the video.

## **Magnets - The Dragon's Secret**

11501551 15 Minutes K-3

VHS 1981 Encyclopedia Britannica

A knight in clanking armor learns a worthwhile lesson from a dragon; never underestimate the power of magnetic attraction. Children, in turn, learn what magnets are, how they are made, how they work, and the many uses of magnets.

## **Magnets and Their Uses**

11501548 11 Minutes K-6

VHS 1963 BFA

Designed to help students learn what magnets are, what magnets do, and how they are used. Demonstration illustrates that magnets have two poles, each different from each other, do not attract all materials. Also shows different places where the principles of magnetism are being put into daily use in homes and industry.

## **Matter and Energy for Beginners - Solid, Liquid, Gas - 2nd Edition**

11501468 12 Minutes K-6

VHS 1990 Coronet Film & Video

An ice cube disappears from a flask and a balloon is blown up. What happened? Can there be a connection between these two changes? That's the mystery

Investigator Alligator must solve. His friend Mr. E supplies a clue, things look and behave like they do because of the kinds of materials they are made of.

## **MR. WIZARD: Action and Reaction**

11502154 20 Minutes 1-8

VHS 1987 Merrill

The five segments demonstrate Newton's Third Law of Motion, which states that for every force there is an equal and opposite force. These two forces are referred to as action-reaction forces.

## **MR. WIZARD: Buoyancy and Displacement**

11502155 20 Minutes 1-8

VHS 1987 Merrill

Is part of the Mr. Wizard's World Series. Buoyancy and displacement were first studied by Archimedes. These phenomena can be readily related using Archimedes' principle, which states "When a body is placed in a fluid, it is buoyed up by a force equal to the weight of the displaced fluid".

## **MR. WIZARD: Change of State**

11502156 20 Minutes 1-8

VHS 1987 Merrill

When matter changes, it undergoes changes of either chemical or physical properties. Chemical properties are those determined by the action of a substance in the presence of other substances.

## **MR. WIZARD: Chemical Reactions**

11502157 20 Minutes 1-8

VHS 1987 Merrill

Chemical reaction indicates chemical change. It is the process by which substances are changed into different substances. There are hundreds of different kinds of reactions; however, there are four general types: single displacement, double displacement, decomposition, and synthesis.

## **MR. WIZARD: Chemical Tests**

11502158 20 Minutes 1-8

VHS 1987 Merrill

Chemical tests are performed to acquire a list of properties of a compound. The tests may be to discover the unknown properties of a new compound or to determine the properties of an unknown compound in the hope of identifying it.

## **MR. WIZARD: Chemistry in the Kitchen**

11502159 20 Minutes 1-8

VHS 1987 Merrill

Is part of the Mr. Wizard's World Series. A solution is a homogeneous mixture of two or more substances. The substance that is dissolved is called the solute. The substance that does the dissolving is called the solvent. The substance present in the largest amount is considered the solvent. Solids, liquids, or gases can be mixed to form solutions.

# Science

## **MR. WIZARD: Combustion**

11502160 20 Minutes 1-8

VHS 1987 Merrill

Combustion is a chemical process in which a substance reacts with oxygen to produce new substances, heat, and, in rapid reactions, light. This process is an oxidation-reduction reaction. Oxidation refers to the loss of electrons; reduction refers to the gain of electrons. In combustion reactions, the substance burned transfers electrons to oxygen, producing new substances that contain oxygen.

## **MR. WIZARD: Current Electricity**

11502161 20 Minutes 1-8

VHS 1987 Merrill

Electric charges that flow between two points are called current. As current passes through a wire, it causes the wire to become warm. As more current passes through the wire, it gets hotter. Electric current flows through conductors. A conductor is a material through which an electric charge moves easily.

## **MR. WIZARD: Fluid Flow**

11502162 20 Minutes 1-8

VHS 1987 Merrill

Is part of the Mr. Wizard's World Series. A fluid is a substance that can flow. Liquids and gases are fluids. Air is a fluid. Air contains mostly nitrogen, some oxygen, a little carbon dioxide, and a small amount of other gases.

## **MR. WIZARD: Gravity**

11502163 20 Minutes 1-8

VHS 1987 Merrill

Earth's large mass creates an attraction between it and other objects. This attraction is called gravitational force. Near the surface of Earth, the force has a value called "one G", which is equal to one times the pull of gravity.

## **MR. WIZARD: Heat - Miscellaneous Topics**

11502164 20 Minutes 1-8

VHS 1987 Merrill

Heat is a form of energy. It can be absorbed, given off, or transferred from one object to another. As objects absorb heat, they become warmer and usually expand. As objects become cooler they usually shrink. If a material that can burn becomes hot enough, it will ignite. To prevent an object from catching fire it must be kept cooler than the temperature needed to burn.

## **MR. WIZARD: Heat Transfers**

11502165 20 Minutes 1-8

VHS 1987 Merrill

Heat is a quantity of energy transferred from one object to another because of a difference in temperature. A heated fluid becomes less dense. A cooler fluid is more dense and flows in to take the place of the warm fluid. The moving fluid is a convection current that transfers energy from one place to another. Convection currents vary in size from small areas, like a glass of water, to currents thousands of kilometers long.

## **MR. WIZARD: Inertia**

11502166 20 Minutes 1-8

VHS 1987 Merrill

Isaac Newton described three laws of motion. His first law states that a body at rest will remain at rest and a body in motion will continue in uniform motion in a straight line unless a net force is applied to it. This law is often called the law of inertia.

## **MR. WIZARD: Light Instruments**

11502167 20 Minutes 1-8

VHS 1987 Merrill

Light is made of visible and invisible waves. The visible portion stimulates the retina in your eyes so you can see. The visible portion is made of the colors in the spectrum, ranging from red to violet. Invisible light is beyond the violet and the red. It is called ultraviolet and infrared. Ultraviolet light can cause some materials to grow.

## **MR. WIZARD: Light Reflection**

11502168 20 Minutes 1-8

VHS 1987 Merrill

Energy that our eyes can see is called light. We see light that is reflected from an object. When light strikes a surface, it is either reflected or absorbed. The color of an object depends on the colors of light it reflects or absorbs. Grass looks green because it reflects green light. Light travels in a straight line. When light strikes a smooth surface, such as a mirror, it reflects at the same angle it strikes.

## **MR. WIZARD: Light Refraction**

11502169 20 Minutes 1-8

VHS 1987 Merrill

Is part of the Mr. Wizard's World Series. Bending of light is called refraction. As light rays pass from one substance to another, they refract. Look at a teaspoon in a glass of water. It appears to be bent or broken at the surface. This illusion is due to refraction of light. Water is more dense than air; glass is more dense than water.

# Science

## **MR. WIZARD: Pressure**

11502170 20 Minutes 1-8

VHS 1987 Merrill

This tapes deals primarily with Pascal's principle and how it applies to atmospheric pressure phenomena. Due to gas molecules being energized and in constant motion by radiation from the sun, and because of gravity, Earth experiences atmospheric pressure.

## **MR. WIZARD: Simple Machines**

11502171 20 Minutes 1-8

VHS 1987 Merrill

There are six simple machines: levers, pulleys, wheels and axles, inclined planes, wedges, and screws.

## **MR. WIZARD: Sound Instruments**

11502172 20 Minutes 1-8

VHS 1987 Merrill

Sound is made of compressional waves. In air, sound comes from air molecules pushing against other air molecules. Sound is produced by vibrating matter. Musical instruments produce musical tones by making vibrations. String instruments have a vibrating string that causes the air to vibrate. In wind instruments, vibrating air columns produce tones.

## **MR. WIZARD: Static and High Voltage Electricity**

11502173 20 Minutes 1-8

VHS 1987 Merrill

Covers: static electricity stalactites, light sculpture and fun with sparks.

## **Physical Science**

24977 7-12

Book 1994 Schaffer

Includes: electricity, light, sound and matter.

## **Physical Science**

18118 6-12

Kit 2004 AGS

Helps students explore and understand the world around them. Students learn the properties of matter, elements, compounds, electricity and sound and light. Students reading significantly below grade level gain practice in working with data and sharpen their abilities to infer, classify and theorize.

## **Physical Science**

21167 1-6

Kit 1987 Janus

Covers: energy, electricity, sound and machines.

## **Physical Science**

16269 6-12

Kit 2001 AGS

Helps student explore and understand the world around them. Students learn the properties of matter, elements, electricity, and sound & light. Students reading significantly below grade level gain practice in working with data and sharpen their abilities to infer, classify and theorize.

## **Physical Science: Chemical Changes**

24823 7-12

Kit 1992 Globe

Includes heat, mixtures, solutions and chemical reactions.

## **Physical Sciences: Electric Currents and Circuits**

11501652 15 Minutes 4-12

VHS 1985 Coronet Film & Video

Concepts underlying use of circuits are illustrated and explained through animation, demonstration and practical application.

## **Physical Sciences: Electricity and Magnetism**

11501653 15 Minutes 4-12

VHS 1985 Coronet Film & Video

Many devices which power our technological civilization depend on the relationship between motion and electricity and magnetism. Animation clearly present demonstrations illustrate the applications of this relationship to motors, generators, solenoids, transformers and electromagnets.

## **Physical Sciences: Light, Color and the Visible Spectrum**

11501655 15 Minutes 4-12

VHS 1985 Coronet Film & Video

A colorfully costumed jazz group is videotaped and viewers observe the effect of using and mixing colored lights and filters and the principles of additive and subtractive color mixing.

## **Physics Demonstrations in Mechanics: Part I**

11502501 35 minutes 9-12

VHS 1990 Physics Curriculum

Physics Demonstrations in Mechanics is a two-part video program which presents a full range of physical demonstrations in the area of mechanics. The program was developed in an effort to give physics teachers a comprehensive collection of video demonstrations to supplement their live classroom demonstrations.

# Science

## **Physics Demonstrations in Mechanics: Part II**

11502502 35 minutes 9-12

VHS 1990 Physics Curriculum

Physics Demonstrations in Mechanics is a two-part video program which presents a full range of physical demonstrations in the area of mechanics. The program was developed in an effort to give physics teachers a comprehensive collection of video demonstrations to supplement their live classroom demonstrations.

## **Properties of Matter: Part I**

11502689 20 minutes K-3

DVD 2003 100% Educational Videos

Come join us in the "matter kitchen" as we learn that our entire world is made of matter, including things we don't see, like the air we breathe. We learn to use our five senses to identify the properties of an object — size, weight, shape, color, and temperature. Students identify some of the tools used to measure the properties of matter. Finally, we learn that matter has mass and takes up space and that it can exist in different states — solids, liquids, or gases. DVD features include interactive quiz, slide show, video "clips" aligned to standards, on-screen teacher's guide and vocabulary plus chapter selections: introduction; five senses; identifying properties of matter; matter can; matter analyzer; matter has mass; matter takes up space; solids, liquids, and gases; and review.

## **Properties of Matter: Part 2 - Liquids, Solids & Gases**

11502690 17 minutes K-3

DVD 2003 100% Educational Videos

Matter is everywhere — in everything. Appropriate examples and experiments make learning about matter easy and fun to follow. Learn that all matter has mass and takes up space, use the five senses to discover the properties of matter, and see how matter changes form. A catchy tune helps solidify important concepts. DVD features include on-screen teacher's guide and vocabulary plus chapter selections: theme and introduction; what is matter?; forms of matter; solids; liquids; gases; matter can change forms; review; and song.

## **Shadows, Shadows Everywhere**

11501725 10 Minutes K-3

VHS 1972 Coronet Film & Video

Two children experiment with morning and afternoon shadows, and then go inside to make more shadows.

## **Simple Machines: Inclined Planes**

11501732 12 Minutes 4-8

VHS 1984 Coronet Film & Video

A roller-skating prehistoric hero demonstrates how inclined planes are put to use to make work easier.

## **Simple Machines: Inclined Planes and Levers - 3rd Edition**

11501693 15 Minutes 4-8

VHS 1982 Encyclopedia Britannica

What is a machine? What makes a machine simple or complex? Beginning with a simple machine that some of us use every day - the ramp of a parking garage - this film illustrates the principles that apply to machines belong to lever and plane families. Students learn about the concept of work in terms of force and distance and are encouraged to experiment with the ways simple machines make work easier.

## **Simple Machines: Levers**

11501733 12 Minutes 4-8

VHS 1984 Coronet Film & Video

This whimsical film demonstrates the workings of the lever and its applications in body parts and mechanical devices.

## **Simple Machines: Pulleys**

11501734 12 Minutes 4-8

VHS 1984 Coronet Film & Video

Diagrams of individual segments of a pulley, combined with humorous, practical applications of fixed and moving pulleys as our intrepid caveman adapts these simple machines to stone-age life.

## **Simple Machines: Wheels and Axles**

11501735 12 Minutes 4-8

VHS 1984 Coronet Film & Video

Suppose you had to transport a mammoth uphill. This humorous program demonstrates how wheels and axles make it possible for things to roll, making heavy work easier.

## **Simple Machines: Working Together**

11501736 15 Minutes 4-8

VHS 1984 Coronet Film & Video

As this clever program demonstrates, to understand what happens when simple machines work together, one has to know the basic things they all do separately.

# Science

## **Solid, Liquid, Gas - 2nd Edition**

11502131 12 Minutes 1-3

VHS 1990 Coronet Film & Video

An ice cube disappears from a flask and a balloon is blown up. What happened? Is there a connection between these two events? Young viewers will discover the answers as Alligator explores the characteristics of solids, liquids and gases and compares them all with each other. Viewers will see why gases expand when heated, learn that heat changes water into a gas that mixes with air and discover that water is the one substance that exists in all three forms at room temperatures.

## **Solids, Liquids & Gases**

23656 4-6

Workbook 1984 Milliken

Has puzzles, activities and experiments.

## **Sound**

11502676 13 minutes 3-6

VHS 2002 Library Video

In Sound, the inhabitants of Mammoth Island learn how sound energy travels in waves. While herding their mammoths towards fresh pasture through a maze of canyons, someone sneezes and the sound reverberates, startling the timid mammoths and causing them to run away. A visiting inventor explains that sounds are caused by the movement of molecules, what scientists refer to as vibrations. Thinking about how our ears translate vibrations into sound leads a bright young Islander, Olive, to create a primitive microphone. The Islanders use this device with an amplifier and loudspeaker to send out a loud trumpeting mammoth call and the lost herd reunites and travels on to greener pastures.

## **Sound**

11502236 13 Minutes K-6

VHS 1986 Barr Films

Presenting fact through fantasy, introduces children to basic concepts of sound. Two children and a genie travel through time and space to experience various aspects of sound. Genie shows them that sound is actually invisible waves traveling through air, water, or materials. He demonstrates how sound waves travel outward from their source, like ripples on a lake. He explains the phenomenon of echoes, and difference between loud and soft sounds.

## **Sound and How it Travels**

11501916 11 Minutes K-3

VHS 1963 Encyclopedia Britannica

Defines sound, and shows that it is caused by vibrations. Reveals that vibrations must travel from their source through a sound medium - air, liquid, or solid to be heard.

## **Sunlight - A First Film**

11502269 12 Minutes 1-6

VHS 1990 BFA

On earth, all life needs sunlight. Every day the sun brings light and life to our earth. Sunlight changes the appearance of our world. All colors are found in sunlight. Sunlight changes with the seasons and time of day. We live in a sun lit world.

## **Things Change - Solids, Liquids, Gases**

11501828 10 Minutes K-3

VHS 1969 Encyclopedia Britannica

Designed to show how matter can change from one state to another in different environments and temperatures.

## **Very First Magnet Kit**

16223 K-3

Kit 1999 Dowling Magnets

In this hands-on series, children are invited to discover the magic of magnetism. This is a perfect starter that's loaded with extras to encourage kids to explore and experiment. This kit includes: magnet wand, four ceramic magnet shapes, ten magnet marbles, one block magnet, assorted flexible magnet shapes, ceramic horseshoe magnet, colored paper clips, nuts and washers and an activity booklet.

## **Water and What it Does - 2nd Edition**

11501879 12 Minutes 1-6

VHS 1988 Encyclopedia Britannica

What do a child's drying bathing suit, a hot air balloon, a dew-drenched car window, and simple experiments with boiling and freezing have in common? They're all used here to illustrate water and what it does. Primary-level viewers discover that water can exist as a solid, a liquid, or a gas; they also drink in the basic meaning of evaporation, condensation, expansion, contraction, and dissolution.

## **What is Electricity?**

11501906 8 Minutes 4-6

VHS 1989 Encyclopedia Britannica

Electricity is the spark you get when dragging your feet on the carpet while putting your hand on a doorknob. Electricity is also the current that powers your television and your refrigerator. Video explains both kinds of electricity, beginning with idea that all matter contains tiny positive and negative charges. To spark understanding, it directs students to duplicate simple experiments and record their finds on the accompanying Think Sheets.

# Science

## **What is Light?**

11501908 8 Minutes 4-6

VHS 1989 Encyclopedia Britannica

This video studies light, those waves that spread out in all directions. It explains that light is part of the electromagnetic spectrum, the entire range of radiant energy forms arranged according to wave length. Students discover that light's wave-lengths are longer than those of x-rays and shorter than those of heat, and that some materials are transparent to light's waves while other materials are opaque to them.

## **Where Do Lost Balloons Go?**

11501917 11 Minutes 1-3

VHS 1986 Coronet Film & Video

What does air have in common with gases? What does it mean to be "lighter than air?" When Wondercat loses his balloon, his observation introduces him to the nature of our atmosphere. Learn about air's structure and properties as you follow Wondercat on an exciting, imaginary ride aboard a soaring balloon.

## **Wondering About Air - 2nd Edition**

11501944 13 Minutes 1-3

VHS 1986 Encyclopedia Britannica

Three clowns pursue what can't be seen or tasted: air. Through misadventures with a balloon, a kite, and a beach ball, the clowns discover that air can be seen only by observing its effect on other things. Leaves youngsters with a good understanding of the properties, behavior, and uses of air.

## **Wondering About Light - 2nd Edition**

11501946 10 Minutes 1-3

VHS 1986 Encyclopedia Britannica

As they play hide-and-seek, four friends discover where light comes from; how it enables us to see; how it behaves when it strikes an object; and how shadows form and change. Often humorous and always informative, film leads youngsters from a casual awareness of light to a basic understanding of its importance, stimulating them to ask questions and to become increasingly aware of the amazing world around them.

## **Wondering About Sound - 2nd Edition**

11501948 10 Minutes K-3

VHS 1986 Encyclopedia Britannica

Introduce children to the wonders of sound through the original music and lyrics of a rock 'n' roll band. With the help of colorful visuals, the band explains vibration and sound waves, inviting viewers to listen to the many different sounds around them.

# General Science

## **Access Science**

16376 7-12

Kit 2005 Attainment

The Student Book presents concepts in a highly visual format with simplified language and easy-to-follow lessons. Each lesson has three parts: Talk and Explore, Look and Read, and Develop Language. Colorful visual aids, limited text, constant vocabulary instruction and a focus on "big ideas" help teach essential content. Contents include: Thinking as a Scientist; Earth Science; Life Science; and Physical Science. The Teacher's Edition has page-by-page support for planning and instruction. It incorporates a smaller version of the Student Book plus daily lesson plans that include aligning content to standards and differentiated instruction suggestions.

## **Air and Space**

15012 K-2

Book 1988 Monday Morning

The activities in this book guide children to be good observers and to make conclusions based on their observations. It offers children the opportunity to explore basic science principles through hands-on experiments and to apply what they learn to the world around them. Covers: air and space experiments; science and the curriculum; and science and the creative arts.

## **Conceptual Physics Alive: Center of Gravity**

11502459 33 Minutes 9-12

VHS 1992 Arbor Scientific

The concepts of torque, center of gravity, and center of mass are applied to balancing. Demonstrations include finding the center of gravity of irregularly-shaped objects, a weighted disk that rolls uphill, and a seesaw.

## **Conceptual Physics Alive: Liquids I**

11502461 39 Minutes 9-12

VHS 1991 Arbor Scientific

The concepts of density, pressure, and the depth-dependence of liquid pressure are used to develop the concept of buoyancy. A variety of demonstrations are used to distinguish between the displacement, volume, weight, and density of immersed objects, and to illustrate Archimedes' principle.

# Science

## **Conceptual Physics Alive: Scaling**

11502462 39 Minutes 9-12

VHS 1992 Arbor Scientific

Surface area and volume are distinguished with simple demonstrations. Several examples are used to illustrate the proportional changes in surface area and volume when objects are scaled up or down in size.

## **Dairy Cows - Keeping Wisconsin Green**

11501233 24 minutes 4-6

DVD 2005 Wisconsin Dairy Producers

The project explores the nature of dairy cows and takes viewers on a journey from the late 1800's to the future of dairying in Wisconsin. Viewers are continually reminded of the essential role dairy cows play in keeping Wisconsin's landscape and economy fruitful. The Into the Outdoors Adventure Team, a group of Wisconsin children ages 10 to 12, travel to Old World Wisconsin and Koepke Farms in Waukesha County and Mayer Farm in Washington County to give viewers a first-hand experience of what dairying means to Wisconsin. The team also follows a group of Junior Dairy Ambassadors to an elementary school, visit a county fair, and learn about the living laboratories installed on Wisconsin Discovery Farms.

## **Doing Science - Process of Scientific Inquiry**

19877 7-8

Binder 2005 National Institute of Health

Students explore the basics of scientific inquiry, refine their critical-thinking skills, and appreciate the purpose of scientific research.

## **Everyday Discoveries**

14390 K-3

Book 1998 Gryphon House

Science and math concepts are embedded in the things children do every day. With this book, children learn the how, the why and the what happens next with these open-ended, self-directed activities. Everyday Discoveries shows how easily and naturally children can learn science and math in preschool programs, early primary classrooms, child care centers and home care settings.

## **Exploring Science Through Symbols and Words**

15840 5-12

Book 2007 Attainment

These three full-color books form a curriculum for students in grades 5-12 who read at a second grade level or below. The science readers are linked to the general curriculum in the mandated academic standards' areas of earth, life and physical science and are adapted here for student access with Boardmaker symbols and simplified language. Books are laminated and reusable because pages can be written on and erased. Use one book for multiple students, for one-on-one, or small group instruction. Books include quizzes embedded throughout each lesson in several formats. Quizzes can also be given by having students point to answers. Allows for student inclusion and access to the general curriculum.

## **General Science**

16267 6-12

Kit 2001 AGS

Offers a comprehensive, systematic overview of key scientific concepts. It is especially useful for students who require extra attention or need additional assistance. Fundamental concepts are presented in easily managed segments.

## **General Science**

18116 6-12

Kit 2004 AGS

Offers a comprehensive, systematic overview of key scientific concepts. It is especially helpful for students who require extra attention or need assistance. Concepts of physical, earth and life science and human body are carefully written and clearly presented.

## **General Science - 3rd Edition**

16512 6-12

Kit 2001 Globe Fearon

Introduces the basic concepts and principles of life, earth and physical science. Designed so that students of all abilities can master basic science concepts.

## **Hot Topics - High Interest Reading, Science**

15134 4-12

Kit 2008 Evan-Moor

This is a supplemental resource for struggling readers in Grades 4 and up. Twenty nonfiction reading selections on fascinating science topics offer a range of readability levels.

# Science

## Leveled Readers - Science Sample Kit:

Kit 2006 Houghton Mifflin  
The only science program developed in consultation with Irene Fountas, it builds fluency, independence, and science knowledge & skills. It contains both nonfiction and realistic fiction books. Has four levels of text—below, on, above, and language support.

<b>Grade K</b>	19698	K
<b>Grade 1</b>	19702	1
<b>Grade 2</b>	19703	2
<b>Grade 3</b>	19744	3
<b>Grade 4</b>	19707	4
<b>Grade 5</b>	19716	5
<b>Grade 6</b>	19717	6

## MCP Science:

Kit 1987 Modern Curriculum Press  
Gives complete coverage in 5 major areas of elementary science curriculum - life, health, earth, matter and energy and the universe.

<b>Book A</b>	20526	4-6
<b>Book B</b>	20272	4-6
<b>Book C</b>	20274	4-6
<b>Book D</b>	22306	4-6
<b>Book E</b>	22307	7-12
<b>Book F</b>	22309	7-12

## **Natural Wonders**

15018 K-2  
Book 1986 Monday Morning  
Natural Wonders provides a wealth of ideas and activities for an endless and joyful journey of exploration. It is full of fresh ideas and activities that encourage independent exploration of the world. Teachers will learn how to help young scientists sharpen their observation skills using a variety of inexpensive or free materials. Projects include: observing spider webs, creating color kaleidoscopes; building and sailing walnut-shell boats, adopting an earthworm, and understanding the weather.

## **Nature Crafts for Kids**

16463 1-6  
Book 1992 Discovery Toys  
This book is for people who like to learn by doing as well as by reading and looking.

## **Science Crafts for Kids**

16592 1-6  
Book 1994 Discovery Toys  
Covers projects in the areas of: Earth, Air, Water & Fire.

## **Science of Mental Illness**

19878 6-8  
DVD 2005 National Institute of Health  
Students gain insight into the biological basis of mental illnesses and how scientific evidence and research can help us understand its causes and lead to treatments and, ultimately, cures.

## Science Today:

Kit 1987 Steck-Vaughn  
Covers: life, earth and physical science in manageable reading segments.

<b>Blue</b>	20860	7-12
<b>Gold</b>	20856	7-12
<b>Green</b>	20859	7-12
<b>Orange</b>	20858	7-12
<b>Red</b>	20857	7-12

## Springboard Series:

Book 1988 Educational Activities 4-9  
Works on reading comprehension skills while discussing science content areas. Designed to help students who are still developing reading skills to master Physical Science content-area material. Learners must integrate the information and use it to make Inferences and Predictions.

<b>Electricity and Magnetism – Cause and Effect</b>	22798
<b>Geology - Detecting Sequence</b>	22810
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<b>Machines - Detecting Sequence</b>	22849
<b>Matter - Locating Details</b>	22811
<b>Mechanics - Cause &amp; Effect</b>	22827
<b>Oceans - Main Idea</b>	22797
<b>Our Earth - Locating Details</b>	22831
<b>Reproduction &amp; Heredity – Main Idea</b>	22822
<b>Solar System - Locating Details</b>	22777
<b>Sound and Hearing – Detecting Sequence</b>	22799
<b>Weather - Cause &amp; Effect</b>	22848

# Science

## Teaching to Standards: Science

### Introductory Kit

16231 6-12

Kit 2008 Attainment

Students participate in a hands-on experiment during each lesson. Response pages help them engage in the inquiry process. Their own student book, ScienceWork, provides extension activities that connect the science concepts to the world around them. Teachers follow scripted lessons that provide clear direction for individual student accommodations. A set of experiment materials included in the Classroom Kit makes it easy to prepare for class.

An electronic Image Library can be used to create communication overlays and additional homework assignments. The program features four units of five lessons each, all aligned to science standards and general education curricula: Earth, Biology, Waters, and Chemistry. All students learn actual scientific vocabulary like pollution, precipitation, and condensation.

### What's in Your Backyard?

11502048 12 Minutes K-6

VHS 1990 MBG Films

In this video, our enthusiastic eight-year-olds find that investigation and discovery can be a great deal of fun. And it's not necessary to travel to some far off, exotic location for the experience. There are many exciting discoveries to be made and facts to be learned, in locations as close as your own backyard.

### Why Cats Have Whiskers?

11501921 11 Minutes 1-3

VHS 1987 Coronet Film & Video

Wondercat about his own whiskers leads Wondercat to fascinating discoveries about whiskers on other animals and serves as an exciting introduction to all the senses. Watching animals around him, he learns how the senses provide information that helps animals function in the world. Wondercat also learns about predators and prey, and how senses - with the assistance of whiskers - help them both. Animated and live action.

### Why Doesn't Grass Grow on the Moon?

11501922 11 Minutes 1-3

VHS 1987 Coronet Film & Video

Wondercat has seen pictures of the moon and he knows that grass doesn't grow on its surface. From his observations he learns what plants need to be able to grow - water, minerals, air and sunlight and he imagines how he could get grass to grow on the moon. Animated and live action.

### Windows on Science:

Book 1988 Creative Publications 12+

#### Light, Color and Shadows 25603

Explore the beauty of light with mirrors, stained glass, shadow plays and more.

#### Rocks, Sand and Soil 25604

Examine soil components from various places. Classify rocks, make sand and more.

#### Seeds and Weeds 25605

Compare seeds, taste nuts, explore how seeds travel, cook seeds, plant seeds and more.

#### Water and Ice 25601

Explore melting and boiling points and more.

### Your World of Facts

80812 1-6

Kit 1981 EB Press

Works on key facts and systems for science and social studies.

# Science

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