

**Saint Louis Zoo Library  
and Teacher Resource Center**

*MATERIALS AVAILABLE FOR LOAN*

# DVDs

The following items are available to teachers in the St. Louis area. DVDs must be picked up and returned in person and are available for a loan period of two weeks. Please call 781-0900, ext. 4555 to reserve materials or to make an appointment.

ALEJANDRO'S GIFT (Reading Rainbow, DVD .) This video examines the importance of water; First, an exploration of the desert and the animals that dwell there; then, by taking an up close look at Niagara Falls. Recommended for grades 1 to 4.

ALL ABOUT ANIMAL ADAPTATIONS (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Learn how nature has helped animals develop new characteristics to help them thrive. From body, shape, and color to defending themselves and caring for their young. Explore the exciting world of animal adaptations! Recommended for grades K to 4.

ALL ABOUT ANIMAL LIFE CYCLES (Animal Life for Children/Schlessinger Science Library, DVD, 23 min.) From tadpole to frog, caterpillar to butterfly, and cub to lion; students will learn about average life spans, different development stages, metamorphosis, and the role of reproduction. Recommended for grades K to 4.

ALL ABOUT ANIMAL NEEDS (Animal Life for Children/Schlessinger Science Library, DVD, 23 min.) In this DVD, explore how animals stay healthy and get energy. Like people, they seek food, water, and shelter; each creature uniquely. A hands-on investigation shows how chicks can breathe while growing inside an egg. Recommended for grades K to 4.

ALL ABOUT BEHAVIOR & COMMUNICATION (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Explore instinctive and learned behaviors of the animal kingdom. Also discover the many ways animals communicate with each other, from a kitten's meow to the dances of bees. Recommended for grades K to 4.

ALL ABOUT BIRDS (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Almost 9,000 species of birds inhabit the Earth today. In this video, explore the special characteristics they all share, from the penguins of Antarctica to the ostriches of Africa. Recommended for grades K to 4.

ALL ABOUT BUGS (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Learn about many different types of bugs, including the characteristics they have in common and the special roles they play in the circle of life. Recommended for grades K to 4.

ALL ABOUT DESERTS & GRASSLANDS : ECOSYSTEMS FOR CHILDREN (Schlessinger Science Library, DVD, 23 min.) Discover the characteristics which make desert and grassland regions unique, while exploring plants and animals from these environments. A hands-on experiment shows how plants have adapted to survive in different ecosystems. Recommended for grades K to 4.

ALL ABOUT DINOSAURS (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Explore the age when dinosaurs ruled the planet! Discover where dinosaurs lived and what they ate. Explore theories on how they became extinct. Recommended for grades K to 4.

ALL ABOUT ENDANGERED & EXTINCT ANIMALS (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Explore the natural and man-made factors that lead to the endangerment and extinction of animals. Recommended for grades K to 4.

ALL ABOUT FISH (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Explore the amazing variety of fish that live in the world's oceans. From sharks and stingrays to pufferfish and seahorses, this video examines the body structures of fish as well as how they reproduce, find food and protect themselves. Recommended for grades K to 4.

ALL ABOUT FOREST ECOSYSTEMS : ECOSYSTEMS FOR CHILDREN (Schlessinger Science Library, DVD, 23 min.) Students explore the plants and animals in ecosystems where trees are the major plant life form discovering the three types of forests: rainforests, deciduous forests and coniferous forests. Recommended for grades K to 4.

ALL ABOUT FOOD CHAINS (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Discover how every living thing on Earth gets the energy it needs to survive. Recommended for grades K to 4.

ALL ABOUT MAMMALS (Animal Life for Children/Schlessinger Media, DVD, 23 min.) Discover the common characteristics of all mammals and what makes them different from other animals. Recommended for grades K to 4.

ALL ABOUT REPTILES (Animal Life for Children/Schlessinger Media, DVD, 23 min.) In this video, learn just what sets reptiles apart from the other animal families. From snakes to iguanas to alligators, explore where reptiles live, what they eat, and how they keep from being eaten. Recommended for grades K to 4.

ALL ABOUT WATER ECOSYSTEMS : ECOSYSTEMS FOR CHILDREN (Schlessinger Science Library, DVD, 23 min.) Viewers explore freshwater and marine ecosystems. A hands-on experiment shows the effects of pollutants in ponds and lakes. A marine biologist examines the oyster population of the Chesapeake Bay. Recommended for grades K to 4.

AMPHIBIANS (Animal Life in Action/Schlessinger Science Library, DVD, 23 min.) Explore amphibians by learning about their physical characteristics, environments, and life cycles. This program also compares amphibians with the reptiles with which they are often confused. Recommended for grades 5 to 8.

AND STILL THE TURTLE WATCHED (Reading Rainbow, DVD, 30 min.) Learn the importance of protecting the environment and how people can care for the earth. Recommended for grades K to 4.

ANIMAL ADAPTATIONS (Animal Life in Action/Schlessinger Science Library, DVD, 23 min.) Discover the various adaptations that different species have undergone; from the giraffe's neck to the polar bear's fur. See the effects of an animal's environment in the lives of later generations. Recommended for Grades 5 to 8.

ANIMAL BEHAVIOR I (Dragonfly TV/ (GPN Educational Media, DVD, 30 min.) Examine Otter and Dog behaviors. Compare grooming habits of otters in captivity with otters in the wild. See how dogs perform on intelligence tests. Visit the Sea Otter Research and Conservation Program in Monterey Bay. Recommended for grades 4 to 7.

ANIMAL BEHAVIOR II (Dragonfly TV/GPN Educational Media, DVD, 30 min.) Watch horses and

African penguins. Investigate how horses communicate and ways to keep the African penguins busy in captivity. A neurobiologist studies birds' songs, to learn how the brain controls complex behaviors, such as language. Recommended for Grades 4 to 7.

ANIMAL BEHAVIOR AND COMMUNICATION (Animal Life in Action/Schlessinger Science Library, DVD, 23 min.) Examine instinctive and learned behaviors of animals; learn their various actions and reactions, and discover how animals can communicate. Explore the symbiotic relationships that different species share. Recommended for grades 5 to 8.

ANIMAL CLASSIFICATION (Animal Life in Action/Schlessinger Science Library, DVD, 23 min.) Learn how taxonomy helps scientists organize and study the natural world. Categories of classification are explained. Recommended for grades 5 to 8.

ANIMAL INTERDEPENDENCY (Animal Life in Action/Schlessinger Science Library, DVD, 23 min.) This program delves into the complex relationships between living things, examining the endless cycle of interdependency known as the food web, as well as predator/prey and symbiotic host/parasitic relationships. Recommended for grades 5 to 8.

ANIMAL LIFE CYCLES (Animal Life in Action/Schlessinger Science Library, DVD, 23 min) Learn about the stages of animal life. A hands-on experiment demonstrates the life cycle of milkweed bugs. Recommended for grades 5 to 8.

ANIMAL NEEDS (Animal Life in Action/Schlessinger Science Library, DVD, 23 min.) Students will learn about the things an animal needs to grow, reproduce, and survive: food, water, oxygen, shelter, and an environment suitable for survival. Recommended for grades 5 to 8.

ANIMALS OF THE RAINFOREST: RAINFOREST FOR CHILDREN (Schlessinger Science Library, DVD, 25 min.) This program introduces viewers to insects, reptiles, birds, & other animals of the tropical rainforest. It demonstrates where animals live, what they eat, how they adapt, & how they protect themselves from predators. Recommended for grades 3 to 6.

ANTARCTICA: AN ADVENTURE OF A DIFFERENT NATURE (Museum of Science and Industry/IMAX, DVD, 38 min.) Visit Antarctica with explorer Robert Scott and tour the wildlife of Antarctica in a way never before possible. Recommended for grades 4 to 12.

ANTS: LITTLE CREATURES WHO RUN THE WORLD (WGBH Boston Video, DVD, 54 min.) Examine the hidden world of ants, where everything they do is for the colony's good. Recommended for grade 5 to adult.

APE GENIUS: WHAT SEPERATES APES FROM HUMANS (WGBH Boston Video, DVD, 54 min.) Explore the differences and similarities between human and ape intellect. Recommended for grade 6 to adult.

AT HOME WITH ZOO ANIMALS (National Geographic, 15 min.) Learn how good zoos provide the best possible environments for the animals. Compare the homes of zoo animals with their homes in the wild. Find out how captive-breeding programs in zoos are helping endangered animals. Recommended for grades K to 8.

.BEES: TALES FROM THE HIVE (Nova, WGBH Boston, DVD, 54 min.) See a bee colony's secret world with rare events like the life-or-death battle between rival queens, a bee eater's attack on the hive, and a scout bee's mysterious dance included. Recommended for grade 4 to adult.

*\*All Bill Nye DVDs include indexed chapters correlated to National Science Standards, glossaries, & quizzes. \**

BILL NYE THE SCIENCE GUY: AMPHIBIANS (Disney Educational Production, DVD, 26 min.) Learn about these "cold-blooded" creatures and how they live both on land and in water. Learn about metamorphosis. Recommended for grades 4 and up.

BILL NYE THE SCIENCE GUY: ANIMAL LOCOMOTION (Disney Educational Production, DVD, 26 min.) See a millipede crawl on its 200 feet; explore how other animals move, even those without legs. Recommended for grades 4 and up.

BILL NYE THE SCIENCE GUY: BIODIVERSITY (Disney Educational Production, DVD, 26 min.) Explore an ocean, a field, and a forest to learn what would happen if one link fell out of nature's chain. Recommended for grades 4 and up.

BILL NYE THE SCIENCE GUY: BIRDS (Disney Educational Production, DVD, 26 min.) Bill Nye shows how birds stay airborne, their habitat, and diet. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: CAVES (Disney Educational Productions, DVD, 26 min.) Explore the bizarre world of caves; surviving in darkness requires an array of natural adaptations. Witness unique life forms. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: CLIMATES (Disney Educational Productions, DVD, 26 min.) Explore Saudi Arabian sand and Costa Rican bananas to understand how different climates are created and how they affect the planet. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: DESERTS (Disney Educational Productions, DVD, 26 min.) Explore the Sonora Desert in Arizona. Learn about native animals & plants. See a camel. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: DINOSAURS (Disney Educational Productions, DVD, 26 min.) Robin Leach visits with Bill to learn some recent discoveries about the lifestyles of the big and extinct. John Ratzenberger also stops in. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: DIVERSITY AND ADAPTATION (Disney Educational Productions, for use on a DVD, MAC or PC) From The Way Cool Game of Science Series; Teams play an interactive quiz game with questions correlated to national and regional science standards. Recommended for grades 4 to 8.

BILL NYE. THE SCIENCE GUY: EVOLUTION (Disney Educational Productions, DVD, 26 min.) Provides reasons behind change and adaptation; discusses genes, DNA, & possible connections between dinosaurs & birds. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: FISH (Disney Educational Productions, DVD, 26 min.) Explore and discover how fish breathe, grow, and survive. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: FOOD WEB (Disney Educational Productions, DVD, 26 min.) Bill shows how each living thing depends upon another. Photosynthesis is explained and we meet some decomposers. Recommended for grades 4 and up.

BILL NYE. THE SCIENCE GUY: FORESTS (Disney Educational Productions, DVD, 26 min.) See some United States forests: WA, FL, TX, & CA. Learn how fire benefits a forest's ecosystem. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: FOSSILS (Disney Educational Productions, DVD, 26 min.) Explore the La Brea Tar Pits, track down dinosaur footprints, discover the relationship between dinosaurs & birds, and find the rhino once lived in Nebraska. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: INSECTS (Disney Educational Productions, DVD, 26 min.) Join special guest Queen Latifah and learn about queen bees. Explore at an insectarium and dig for insect fossils. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: INVERTEBRATES (Disney Educational Productions, DVD, 26 min.) Explore the “Spineless Wonders” and learn the characteristics making invertebrates so important. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: LAKES AND PONDS (Disney Educational Productions, DVD, 26 min.) Learn where the water comes from that collects and pools in freshwater bodies of water. Explore other freshwater questions. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: LIFE CYCLES (Disney Educational Productions, DVD, 26 min.) Learn how life cycles are similar in living things. Study how living things grow, reproduce, & die. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: MARINE MAMMALS (Disney Educational Productions, DVD, 26 min.) Hear how marine mammals communicate and learn how these mammals live in the world’s oceans. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: MAMMALS (Disney Educational Productions, DVD, 26 min.) Learn about the mammal family. Explore mammals like: human beings, moose, cats, & rats. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: OCEAN EXPLORATION (Disney Educational Productions, DVD, 26 min.) Glimpse the special tools for investigating the ocean. Learn why ocean studies are crucial to life on land. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: OCEAN LIFE (Disney Educational Productions, DVD, 26 min.) Explore ocean ecosystems and study plankton, coral, & kelp. Learn how important they are to creatures like whales. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: OCEANOGRAPHY (Disney Educational Productions, DVD, 26 min.) Learn why oceans are salty and how they flow. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: POPULATION AND ECOSYSTEMS (Disney Educational Productions, for use on a DVD, MAC or PC) From The Way Cool Game of Science Series; Two teams play an interactive quiz game with questions correlated to national and regional science standards. Recommended for grades 4 to 8.

BILL NYE, THE SCIENCE GUY: REPTILES (Disney Educational Productions, DVD, 26 min.) Study reptiles; watch a snake eat a mouse. Ponder links between reptiles, dinosaurs, & birds. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: RIVERS AND STREAMS (Disney Educational Productions, DVD, 26 min.) Track the origins of these bodies of water and how they impact life. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: SPIDERS (Disney Educational Productions, DVD, 26 min.) Learn how spiders spin webs, eat prey, & as predators keep the insect population in check. Recommended for grades 4 and up.

BILL NYE, THE SCIENCE GUY: WETLANDS (Disney Educational Productions, DVD, 26 min.) Explore American wetlands and slosh through swamps, bogs, & marshes. Learn about flood control, water filtration, & habitats. Recommended for grades 4 and up.

BIRDS: BACKYARD SAFARI (GPN Educational Media, DVD, 30 min.) Students will see how wildlife adapts to the environment. They will see how birds’ bodies are suited to their climate and habitat, what variety of foods birds eat, and how to identify birds by their appearance and calls. Recommended for grades 4 to 8.

BIRDS: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Study both flying and flightless birds; learn about physical characteristics, yearly migration patterns that some birds embark on, and what hydrodynamic means? See how an egg incubator can be used to hatch chickens. Recommended for Grades 5 to 8.

BUGS (Reading Rainbow, DVD/ 30 min.) Take a look at a number of different insects, their habits and their usefulness. Also see the migration of monarch butterflies. Recommended for grades 2 to 6.

BUTTERFLIES: BACKYARD SAFARI (GPN Educational Media, DVD, 30 min.) Witness a bouquet of butterflies – sometimes called “flying flowers”. Learn about metamorphosis, the unusual ways in which a caterpillar uses its antennae, proboscis, and feet. Learn to make a butterfly mobile. Recommended for Grades 1 to 4.

CHICKENS AREN'T THE ONLY ONES (Reading Rainbow, DVD/ 30 min.) What other animals, besides chickens, lay eggs? The loggerhead turtle and many others. See a chick hatch! Recommended for grades 1 to 4.

CRANE SONG (NET Foundation for Television/PBS, DVD, 60 min.) Visit Nebraska’s Platte River Valley where 80 percent of the sandhill cranes travel through annually. Also meet landowners who seek to preserve the habitat for the cranes. Recommended for grades 3 to 12.

CREEPY CREATURES (National Geographic, DVD, 30 min.) National Geographic presents a video gallery of nature’s creepiest creatures. Visit vampire bats, a black widow, and a Komodo dragon. Sing along to the horribly good songs! Recommended for grades K to 6.

CYCLES OF LIFE: EXPLORING BIOLOGY. ANIMAL STRUCTURE PART I (GPN Educational Media, DVD, 60 min.) Part I includes: The Diversity of Animals; Tissues and Integument; Muscles and Movement; Circulation: A River of Life; The Heart: Different Strokes; Immunity: Mind Your B’s and T’s. Recommended for high school students.

CYCLES OF LIFE : EXPLORING BIOLOGY. ANIMAL STRUCTURE PART II (GPN Educational Media, DVD, 60 min.) Part II includes: Respiration; Lung Power; Digestion; The Neural Connection; Endocrine: Living with Diabetes; Reproduction: Embryonic Development. Recommended for high school students.

CYCLES OF LIFE : EXPLORING BIOLOGY. BIOLOGICAL CONCEPTS (GPN Educational Media, DVD, 60 min) Includes: The Unity and Diversity of Life; Scientific Method; Microevolution: The Theory of Natural Selection; Evolution in Action; Macroevolution; The Evolutionary Timeline. Recommended for high school students.

CYCLES OF LIFE : EXPLORING BIOLOGY. THE CHEMISTRY OF LIVING ORGANISMS (GPN Educational Media, DVD, 60 min.) This DVD includes: Cells: The Remarkable Factory, The Power of Metabolism, Metabolism: Fueling the Fire, Photosynthesis: Energy In – Energy Out, Respiration: Harvesting Energy. Recommended for high school students.

CYCLES OF LIFE : EXPLORING BIOLOGY. THE CONTINUITY OF LIFE (GPN Educational Media, DVD, 60 min.) This DVD includes: Chromosomes: Information for Life, Mitosis: Copycat Cells, Meiosis: Shuffling the Genetic Deck, DNA: Blueprint of Life, Genetic Engineering, Proteins: Building Blocks of Life. Recommended for high school students.

CYCLES OF LIFE : EXPLORING BIOLOGY. ECOLOGY (GPN Educational Media, 60 min., DVD) This DVD includes: Populations, Community Interactions, Ecosystems, Weather and Biome, Global Warming and Bioremediation. Recommended for high school students.

CYCLES OF LIFE : EXPLORING BIOLOGY. PLANTS (GPN Educational Media, DVD, 60 min.) This DVD includes: Plant Diversity: The Move to Land, Plant Structure: Roots, Stems: Reaching for the Sky, Leaves: Powering Plants, Pollination, The Legacy of Seeds. Recommended for high school students.

DARWIN’S DANGEROUS IDEA (WGBH, DVD, 120 min.) Learn why Darwin kept his theory of evolution under wraps for almost 21 years. Understand why his idea might matter more today than it did in his own time. Recommended for grades 6 to 12.

DESERT GIANT: THE WORLD OF THE SAGUARO CACTUS (Reading Rainbow, DVD, 30 min.) A visit to the desert reveals surviving plants & animals. Get a close-up look at rattlesnakes! Recommended for grades 1 to 4.

DIGGING UP DINOSAURS (Reading Rainbow, 30 min., DVD) This video relates the processes of how and why we examine dinosaur fossils. Recommended for grades 1 to 4.

DINOSAURS : BACKYARD SAFARI (GPN Educational Media, DVD, 30 min.) Learn about dinosaurs by looking for clues like: How fossils reveal the sizes and types of dinosaurs. How dinosaur traits compare with similar living animals, and what a paleontologist is and how they study. Recommended for Grades 1 to 4.

DINOSAURS AND OTHER CREATURE FEATURES (National Geographic, DVD, 47 min.) See some creepy creatures: spiders, ants, and dung beetles. Travel back to the days of raptors and T-Rex. Features include: Interactive fun facts, quizzes, sound clips, and map. Recommended for grades K to 6.

DINOSAURS UNEARTHED (National Geographic, DVD, 100 min.) This DVD contains two films: Dino Autopsy and Dino Death Trap. In the first see a dinosaur mummy complete with skin intact. In the second, see T-Rex’s smaller great-grandfather unearthed in China. Recommended for grade 4 to adult.

DIVE TO THE CORAL REEFS (Reading Rainbow, DVD, 30 min.) This adventure takes viewers scuba diving off the Florida Keys to discover a variety of coral and tropical fish. Recommended for grades 2 to 6.

ECOSYSTEMS: DRAGONFLY TV (GPN Educational Media, DVD, 30 min.) Explore how plants survive the harsh conditions on the Guadalupe-Nipomo Sand dunes. Study the nesting habits of June Beach's baby turtle. Investigate the annual salmon run and meet a tree-climbing scientist who explores the mysterious survival of forest canopies. Recommended for Grades 4 to 7.

ELEPHANT JOURNEY : DISNEY'S NEW TRUE LIFE ADVENTURES (Disney Educational Productions, DVD, 45 min.) Follow the elephants of Africa's Etosha National Park in a quest for food and water across the desolate Kaokoveld region of Namibia. Recommended for grades 4 to 12.

ELEPHANTS AND RHINOS : DISNEY'S ANIMAL WORLD (Disney Educational Productions, DVD, 32 min.) Live action wildlife clips of animals introduce elephant and rhino habitats, living conditions, behaviors, diets, survival techniques, & life cycles. Recommended for grades K to 3.

EMPERORS OF THE ICE (National Geographic Television & Film, DVD, 52 min.) Using Critter-cam, scientists hitch a virtual ride under the ice with the emperor penguin to study the impact of climate change on the penguin's world. Recommended for grade 4 to adult.

ENDANGERED & EXTINCT ANIMALS: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Learn how scientists determine if an animal species is threatened or endangered and what factors put populations in danger of extinction; witness animals that are affected & find out about conservation efforts. Recommended for grades 5 to 8.

EVERGLADES-HOME OF THE LIVING DINOSAURS : DISNEY'S NEW TRUE LIFE ADVENTURES (Disney Educational Productions, DVD, 45 min.) The Everglades are one of the most diverse ecosystems on the planet, and this video focuses on this habitat and its rulers, the alligators. Recommended for grades 4 to 12.

EVOLUTION: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Discover Earth's animal species evolution; from the earliest forms of bacteria to the animals that exist today. Discover animal adaptations and explore the complexities of DNA. Recommended for grades 5 to 8.

EYE OF THE LEOPARD (A Wildlife Films Botswana Production: National Geographic, DVD, 90 min.) Award-winning filmmakers Dereck and Beverly Joubert capture the gripping story of a leopard's survival in wild Africa over three years. It's a journey of birth, life and death. Recommended for grade 7 to adult.

THE EYES OF NYE: GLOBAL CLIMATE CHANGE (Disney Educational Productions, DVD, 23 min.) Learn about how scientists measure climate change, the temperature of Earth's atmosphere, and the role of fossil fuels. Other features: Printable Educator's Guide, web links to resources, clips correlated to activities in the on-disc Educator's Guide. Recommended for grades 9 to 12.

FISH: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Study each of the major groups of fish living today: osteichthyes, chondrichthyes, agnathans. Explore characteristics and habitats of fish. Recommended for grades 5 to 8.

FOOD CHAINS: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Explore the cycle of energy from producers and consumers to the insects, fungi and bacteria that make up the decomposers. Examine various food chains, webs and the energy pyramid. Recommended for Grades 5 to 8.

THE FOUR-WINGED DINOSAUR (NOVA, DVD, 54 min.) NOVA investigates volcanic fossils of the Microraptor using a team of paleontologists, aeronautical engineers, and artists rekindling a decades-long debate over the origin of bird flight. Recommended for grade 4 to adults.

GILA MONSTERS MEET YOU AT THE AIRPORT (Reading Rainbow, DVD, 30 min.) Examine the amazing wildlife of the American desert. Recommended for grades 1 to 4.

GLOBAL WARMING: PUBLIC AGENDA AND GOVERNMENT RESPONSIBILITY (ABC News Classroom, Disney Educational Productions, DVD, 60 min.) News media examine the growing climate crisis from multiple viewpoints revealing how public opinion can be influenced by media and how politics have dominated the global warming topic. Science behind climate change is presented. Recommended for grades 6 to adult.

GLOBAL WARMING: THE SIGNS AND SCIENCE (PBS Home Video, DVD, 60 min.) The words and stories of people across America uncover the reality of climate change. Meet scientists, working at the edge of climate science. (Hosted by Alanis Morissette) Recommended for grade 6 to adult.

HABITATS: DRAGONFLY TV (GPN Educational Media, DVD, 30 min.) Explore the California Cavern and lizard habitats. Investigate what's causing the malformations at a neighborhood frog pond. See how biologists use a "virtual bat", which is a technology that mimics real bat sounds and calls. Recommended for grades 4 to 7.

HUMPHREY THE LOST WHALE (Reading Rainbow, DVD/VHS, 30 min.) The true story of Humphrey the whale sets the tone for this whale watching adventure uncovering many facts about the humpback whale. Recommended for grades 1 to 4.

IMOGENE'S ANTLERS (Reading Rainbow, DVD, 30 min.) Follow Imogene as she tries to find uses for her new antlers, and then listen to zookeeper Linda Jennings as she explains how other animals use theirs. Recommended for grades 1 to 4.

THE INCREDIBLE JOURNEY OF THE BUTTERFLIES (NOVA, PBS Home Video, DVD, 56 min.) Follow the annual trek of 100 million monarch butterflies as they travel 2,000 miles to reach the remote mountains of Mexico. Marvel with scientists at this journey. Recommended for grade 4 to adult.

INSECTS & OTHER ARTHROPODS (Schlessinger Science Library, DVD, 23 min.) Explore the variety found among arthropods, particularly insects, spiders and crustaceans. Discover the differences between these groups: their body structures, habits, habitats, and their ways of interacting. See how they survive extreme environments and benefit human beings. Recommended for grades 5 to 8.

IS THIS A HOUSE FOR HERMIT CRAB? (Reading Rainbow, DVD, 30 min.) See varieties of animal homes and learn why choosing just the right home is important for animals. Visit peregrine falcons living on tall city buildings and go inside a beaver lodge. Recommended for grades 1 to 4.

JACK, THE SEAL AND THE SEA (Reading Rainbow, DVD/ 30 min.) Travel with a marine biologist and see some of the animals that live in the San Francisco Bay. Learn how pollution can disturb the delicate balance of ocean life. Recommended for grades 2 to 6.

JANE GOODALL: REASON FOR HOPE A SPIRITUAL JOURNEY (PBS Home Video, DVD, 60 min.) Inspired by the book, "Reason for Hope: A Spiritual Journey" this tells the story of Jane Goodall the woman. Recommended for grade 7 to adult.

THE LAST GREAT APE (WGBH Boston Video, DVD, 56 min.) Follow scientists into the Congo in a journey to understand the little studied group of apes called the bonobos. Recommended for grade 6 to adult.

LIFE: BIRDS (Discovery Education, DVD, 44 min.) See how the only creatures with feathers solve life's challenges in radically different ways. Learn about bird feeding and mating habits across the planet. Recommended for grade 3 to 12.

LIFE: CHALLENGES OF LIFE (Discovery Education, DVD, 44 min.) Following some of the planet's most diverse species, the program documents day-to-day challenges of life and survival and show the adaptations and strategies employed. Recommended for grades 3 to 12.

LIFE: CREATURES OF THE DEEP (Discovery Education, DVD, 44 min.) Learn about marine invertebrates and the survival techniques that have existed for millions of years. Recommended for grades 3 to 12.

LIFE: FISH (Discovery Education, DVD, 44 min.) Learn about fish with unique adaptations and symbiotic relationships which help them survive the deep ocean. See some unusual mating and parenting. Recommended for grades 3 to 12.

LIFE: HUNTERS AND HUNTED (Discovery Education, DVD, 44 min.) Follow hunters in the hunt. See a mother teach her young to hunt. See mammals learn to hunt and kill through play. Recommended for grades 3 to 12.

LIFE: INSECTS (Discovery Education, DVD, 44 min.) See the vast variety of insects from around the earth; the masters of adaptation demonstrate the ways in which they survive. Recommended for grades 3 to 12.

LIFE: THE MAKING OF LIFE (Discovery Education, DVD, 44 min.) See how the makers of the LIFE series acted extraordinarily to bring this rare footage to the screen. See how they survived extreme conditions to capture amazing wildlife footage. Recommended for grades 3 to 12.

LIFE: MAMMALS (Discovery Education, DVD, 44 min.) Watch as mammals, through their abilities to learn, react, and adapt thrive in nearly every habitat. See the behavior traits that separate them from other animals. Recommended for grades 3 to 12.



LIFE: PLANTS (Discovery Education, DVD, 44 min.) Learn about all sorts of plants and witness their pursuit of sunlight, water, and nutrients. See aggressive climbers, plants from the forest canopy, and even carnivorous plants. Recommended for grades 3 to 12.

LIFE: PRIMATES (Discovery Education, DVD, 44 min.) Watch primates from around the planet and learn about their survival abilities, intelligence, and adaptations. Recommended for grades 3 to 12.

LIFE : REPTILES AND AMPHIBIANS (Discovery Education, DVD, 44 min.) Look at survival, mating, and parenting behaviors of both reptiles and amphibians. Recommended for grades 3 to 12.

THE LIFE CYCLE OF THE HONEY BEE (Reading Rainbow, DVD/ 30 min.) Through a close-up look at a beehive, viewers see how honey is made and discover how the hive is organized. Recommended for grades 1 to 4.

LOUIS THE FISH (Reading Rainbow, DVD, 30 min.) Hear the story of a man who wants to be a fish, and meet the dolphins Dixie and Dolly. Recommended for grades 1 to 4.

MAMMALS: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Learn the similarities that all mammals share and study their differences, like, how monotreme, marsupial and placental mammals reproduce. Learn about the incredible variety of mammals and discover various traits making them able to survive. Recommended for grades 5 to 8.

MAMMALS: DRAGONFLY TV (GPN Educational Media, DVD, 30 min.) Visit baby animals at the Minnesota Zoo. Investigate pet handedness – DragonflyTV investigates right and left-handed cats and sea lions! A Primate specialist tests chimpanzees to better understand the human mind. Recommended for grades 4 to 7.

MARCH OF THE PENGUINS (Bonne Pioche/APC/Warner Bros., DVD, 80 min.) Watch the incredible 70 mile march as these flightless birds journey to mate and raise their young. Narrated by Morgan Freeman. Recommended for all ages.

MARINE & OTHER INVERTEBRATES: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Examine these spineless animals and their many different looks, environments, movements. Learn how varied invertebrates really are. Recommended for grades 5 to 8.

MASTERS OF THE ARCTIC ICE (National Geographic Television, DVD, 52 min.) See how the loss of Arctic ice affects the survival skills of ringed seals, polar bears, and narwhals. Learn how the Arctic creatures are adapting – from their own point of view with creature-cam. Recommended for grade 4 to adult.

NOSEY MRS. RAT (Reading Rainbow, DVD, 30 min.) Curiosity can be wonderful! Meet naturalist Jane Goodall and nature photographer Martin Dorn as they explore the natural world. Recommended for grades 1 to 4.

ONCE THERE WAS A TREE (Reading Rainbow, DVD, 30 min.) Examine the ecology of forests and the importance of trees. Recommended for grades 1 to 4.

PENGUINS: THE BIRDS THAT WANTED TO BE FISH (WGBH Boston Video, DVD, 52 min.) This program examines the adaptations and origins of penguins as they evolved into a unique family of birds. Recommended for grade 4 to adult.

PRIVATE LIVES OF DOLPHINS (NOVA, DVD, 56 min.) Researchers share their findings regarding dolphins' brainpower, society, evolution, and strikingly human traits after decades of long-term study in the dolphins' native surroundings. Recommended for age 6 to adult.

RACCOONS AND RIPE CORN (Reading Rainbow, DVD, 30 min.) Become a wildlife detective! With the help of a naturalist, discover clues about where wild animals have been and what they have done. Recommended for grades 1 to 4.

REPTILES: ANIMAL LIFE IN ACTION (Schlessinger Science Library, DVD, 23 min.) Study the unique characteristics and habits of snakes, lizards, crocodiles, alligators and turtles. See them protect themselves and capture their prey; watch chameleons use camouflage. Recommended for Grades 5 to 8.

THE RUNAWAY DUCK (Reading Rainbow, DVD, 30 min.) Hear of the adventures of a lost toy duck, followed by an examination of the real thing. Recommended for grades K to 5.

THE SALAMANDER ROOM (Reading Rainbow, DVD/ 30 min.) Visit a simulated rain forest and learn how it was created to provide habitats for rain forest animals like monkeys, tapirs, gharials and hornbills. See how scientists study the rain forest. Recommended for grades K to 5.

SAM THE SEA COW (Reading Rainbow, DVD, 30 min.) See manatees in their natural habitat at Homosassa Springs and look at rescue efforts in Chassahowitzka National Wildlife Refuge to save these gentle giants. Recommended for grades 1 to 4.

SCIENCE CLIPS FOR STUDENTS: ADAPTATIONS & LIFE CYCLES (Schlessinger Science Library, DVD, 18 min.) This DVD shows plant & animal adaptations which enable survival & reproduction, thereby passing traits on to new generations (a foal's birth is shown). Global ecosystem patterns are shown; comparing plant and animal kingdom life cycles. Recommended for grades 5 to 8.

SEA OF SHARKS : DISNEY'S NEW TRUE LIFE ADVENTURES (Disney Educational Productions, DVD, 45 min.) Filmed almost entirely under water, the DVD presents a detailed portrait of the ecosystem in which sharks live and are an important link. Recommended for grades 4 to 12.

SEASHORE SURPRISES (Reading Rainbow, DVD/ 30 min.) Visit an island off the coast of Florida and explore the amazing creatures that live where the ocean meets the land. Naturalists introduce viewers to animals like crabs, sea squirts, oysters, scallops, sea stars, sea urchins and a variety of fish. Recommended for grades 2 to 6.

THE SECRET LEOPARD (National Geographic, DVD, 60 min.) This profile of the solitary leopard takes you to Kenya's Masai Mara Game Reserve to show you the life of a mother and her three young cubs. Recommended for grade 7 to adult.

SECRET YELLOWSTONE: EXPLORE BEYOND THE TOURIST HOTSPOTS (National Geographic, DVD, 46 min.) Venture off the beaten path in this film showing newly mapped waterfalls, molten magma chambers, & ecological mysteries unique to this challenging environment. Recommended grades 4 and up.

SECRET YOSEMITE: EXPLORE BEYOND THE TOURIST HOTSPOTS (National Geographic, DVD, 46 min.) See El Capitan rock formation up close, follow hikers in a violent lightening storm atop Half Dome, study the biophysics of giant sequoias, and see vistas of America's tallest waterfall. Recommended for grade 4 to adult.

STELLALUNA (Reading Rainbow, DVD/ 30 min.) A charming tale of a baby bat who falls headfirst into a bird's nest and is raised in a most peculiar way by a family of

birds until she's reunited with her mother. Recommended for grades K to 4.

THAT'S MY BABY: BACKYARD SAFARI (GPN Educational Media, DVD, 30 min.) See how the needs of baby animals are similar to and different from human babies. Learn how different animals are born and learn to walk and how baby animals develop in their first few days, weeks, and years. Recommended for grades 1 to 4.

TIGERS OF THE SNOW (National Geographic, DVD, 60 min.) See the endangered Siberian Tiger in its natural forest kingdom. Follow scientists trying to preserve the natural habitat. See them place themselves in harm's way for the sake of these tigers. Recommended for grade 4 to adult.

TIGERS AND LIONS : DISNEY'S ANIMAL WORLD (Disney Educational Productions, DVD, 30 min.) Live action wildlife clips of animals introduce students to Tiger and Lion habitats, living conditions, behaviors, diets, survival techniques, and life cycles. Recommended for grades K to 3.

TREASURES OF THE GREAT BARRIER REEF (NOVA, WGBH Boston, DVD, 54 min.) From microscopic detail to great panoramas, NOVA uses new technologies to tour the Great Barrier Reef. Visit lion fish, puffer fish, sea snakes, coral cities, damselfish, clown fish, moray eels, Christmas tree fish, manta rays, and whale sharks. Recommended for grade 4 to adult.

TROPICAL RAINFOREST (Science Museum of Minnesota/IMAX, DVD, 50 min.) This film features the birds and primates of the forest canopy and insects of the forest floor. Learn to better understand and appreciate this special environment. Recommended for all ages.

WHALES IN CRISIS (National Geographic Television, DVD, 56 min.) Learn about global threats to whales. Discover the most recent findings and research about whales. Recommended for grade 7 to adult.

WHALES AND SHARKS : DISNEY'S ANIMAL WORLD (Disney Educational Productions, DVD, 32 min.) Live action wildlife clips of animals introduce students to whale and shark habitats, living conditions, behaviors, diets, survival techniques, and life cycles. Recommended for grades K to 3.

WOLVES (Wolfco Productions/IMAX, DVD, 101 min.) Discover wolf packs by plane, helicopter, and foot. Learn about the reintroduction of wolves into the American West. Discover the link between bison and wolves. Recommended for grades 4 to 12.

## Zoocases

The following kits are available for a two-week loan period.

AFRICAN FOLKTALES ZOOCASE This kit focuses on African folktales and the wildlife which inspired them. A book of folktales from Africa, lion and elephant puppets, and models of African animals are included. Recommended for grades K to 6.

AMPHIBIAN ALERT ZOOCASE This zoocase warns of the decrease in frog and other amphibian populations, and gives explanations for their possible endangerment. Wonderfully accurate models of frogs and salamanders as well as a board game are included. Recommended for grades 4 to 7.

ANIMALS OF ASIA ZOOCASE Panda, orangutan, snow leopard and peacock puppets are among the items included in this kit. Books, photos and models explore the variety of animals and habitats found in Asia. Recommended for grades K to 6.

ARCTIC WILDLIFE ZOOCASE Polar bear, Arctic fox, snowy owl, and walrus puppets and plush animals, models, books, DVD, and activities are among the items in this kit. Recommended for grades K to 6.

ARTHROPODS ZOOCASE Insects, spiders, scorpions, centipedes and other arthropods are examined in this kit which includes background information, books with activity ideas, and larger-than-life replicas of some of the featured animals. Recommended for grades K to 8.

AUSTRALIAN ANIMALS ZOOCASE Kangaroo, koala, frilled lizard, platypus puppets, and a puppet show script are some items included in this kit which explores the Land Down Under. Recommended for grades K to 6.

BACKYARD WILDLIFE ZOOCASE Rabbit, raccoon, opossum, chipmunk, and robin puppets and a puppet show script are among the items in this kit focusing on animals that live in the city and the suburbs. Recommended for grades K to 6.

BATS AND CAVE ECOLOGY ZOOCASE This kit includes a bat puppet, bat activity book, DVDs and a cast of a saber-toothed cat footprint found in a Missouri cave. The wildlife, ecology and conservation of caves are featured. Recommended for grades 2 to 9.

BIODIVERSITY ZOOCASE Biodiversity is examined at the ecosystem, species and genetic levels in this kit which includes a collection of background information for teachers and students. Recommended for grades 6 to 12.

BIRDS ZOOCASE Feathers, model eggs, a CD of bird calls, books and materials for activities are contained in this kit. Choose from information and activities for primary, intermediate and advanced levels. Recommended for grades 2 to 9.

COMPARATIVE ANATOMY ZOOCASE Lesson plans, student worksheets and sets comparing the hindlimbs of a rabbit, fish, turtle and frog and forelimbs of a cat, fish, turtle and frog are among the items included. Recommended for grades 5 to 8.

DESERTS ZOOCASE Explore the deserts of the world and the adaptations of desert animals and plants. Desert animal puppets, books, and activity ideas are included in this kit. Recommended for grades K to 6.

DINOSAURS AND PREHISTORIC ANIMALS ZOOCASE A teacher's guide with a variety of science, math, art and language arts activities accompanies models of dinosaurs and prehistoric animals. Recommended for grades K to 6.

EVOLUTION ZOOCASE This kit includes materials for an inquiry activity about the nature of science, as well as an activity about natural selection acting on genetic variation. A DVD about evolution, curriculum guides and books are included. Recommended for grades 5 to 8.

FOOD CHAINS AND WEBS ZOOCASE This kit includes games, animal cards, stamps, vocabulary cards, activities, a Food Chain song, and a DVD. Lessons with reproducible materials are included. Recommended for grades 3 to 8.

FROG MATH ZOOCASE Students learn basic math skills as they “hop” into the classic storybook, Frog and Toad. An adventure in numbers, and loads of fun, for grades K to 3.

INSECTS ZOOCASE Puppets, insect-viewers, rubber insect replicas, picture cards and activity books are items included in this kit. Recommended for grades K to 6.

ISLANDS ZOOCASE Island formation, ecology and wildlife conservation are some topics covered in this kit featuring the Galapagos Islands, Madagascar, and Papua New Guinea. Curriculum guides and other materials are included. Recommended for grades 5 to 8.

MAMMALS ZOOCASE This 5-day unit includes skulls, casts of mammal teeth, a slide program, student activity sheets and equipment for a variety of activities. Recommended for grades 4 to 8.

MILKWEEDS FOR MONARCHS ZOOCASE Books, finger puppets, metamorphosis models and wearable wings are among the items included in this kit. Recommended for ages 3 to 9.

NOCTURNAL ANIMALS ZOOCASE A great horned owl, an opossum, a little brown bat and a couple of tiny mice are included in this zoocase about nighttime, animal behavior. There are also various books to help students learn what goes on after they go to sleep. Recommended for grades K to 6.

NORTH AMERICAN WILDLIFE ZOOCASE The bald eagle, bison, moose, alligator and grizzly bear are some animals featured in this kit which includes puppets, Native American animal stories, background information and activities. Recommended for grades K to 6.

OCEAN LIFE ZOOCASE A DVD, activity booklet, sea star, sea horse, sand dollar and shark's tooth are among the items included in this study of ocean life. Available for grades K to 3 or grades 4 to 8.

PENGUINS ZOOCASE Penguin models and books are among the items included in this kit focusing on these unusual birds. Recommended for grades K to 4.

#### PETS AND THEIR WILD RELATIVES ZOOCASE

Puppets of a dog and a wolf, a tiger and a house cat, a mouse and a guinea pig are included in this zoocase that helps explain the fundamental differences in wild animals and their domesticated counterparts. Recommended for grades K to 6.

POLLINATORS ZOOCASE Puppets, puppet show script, models, rubber stamps, books, and activity ideas are among the items in this kit which focuses on the important role pollinators play in our world. Recommended for grades K to 6.

PRIMATES ZOOCASE Models, stuffed animals, a DVD, background information and activity books are found in this kit which focuses on monkeys, apes, and other primates. Recommended for grades K to 6.

RAIN FOREST ZOOCASE This kit features iguana and macaw puppets, models of rain forest animals, and activity ideas. Recommended for grades K to 6.

REPTILES AND AMPHIBIANS ZOOCASE This kit includes hands-on materials, activity ideas and a DVD for the study of reptiles and amphibians. A turtle shell, rattlesnake rattle, snake shed and a crocodile tooth are among the items included. Available for grades K to 3 or grades 4 to 8.

RIVERS AND WETLANDS ZOOCASE Puppets, books and fact sheets will guide your students through the many wonders and interesting animals found along the river's edge. Recommended for grades K to 6.

SEALS AND SEA LIONS ZOOCASE Puppets, puppet show script, models, rubber stamps, books, and a DVD are among the items in this kit. Recommended for grades K to 4.

SKULL SKILLS A subset of the Mammals Zoocase, this activity focuses on the adaptations of mammal dentition. The kit includes skulls, casts of mammal teeth, teacher's guide and reproducible student worksheets. Recommended for grades 4 to 8.

THIS PLACE IS A ZOO! ZOOCASE Young students get a good introduction to the zoo with this zoocase that contains animal finger puppets, models and books about the sights and sounds of the zoo. Recommended for grades Pre-K to 3.

THREATENED AND ENDANGERED SPECIES

ZOOCASE This kit features black rhinoceros and giant anteater puppets, models and pictures of endangered species, and an activity book. Recommended for grades K to 6.

ZOOMAGINATION-TO-GO: BE A NATURE

DETECTIVE Puppets, plush birds, animal replicas, binoculars, magnifying glasses, bug viewers, and field guides are among the items in this kit. Recommended for ages 3 to 9.

ZOOMAGINATION-TO-GO: CARING FOR ZOO

ANIMALS This kit features puppets, a veterinarian's kit, Jr. Zookeeper vests, items for pretend food preparation, books and more. Recommended for ages 3 to 6.

## Other Loan Kits

The following kits are available for a two-week loan period.

BUTTERFLIES FINGER PUPPET KIT Includes an activity book, finger puppets, and species information sheets. Recommended for grades K to 4.

GÁLAPAGOS KIT Contains the storybook "Gálapagos" means "Tortoises" by Ruth Heller and Gálapagos animal models.

THE GROUCHY LADYBUG KIT Contains the storybook The Grouchy Ladybug by Eric Carle and two ladybug hand puppets.

INSECT PUPPET PACK A variety of insect puppets.

KOMODO! KIT A look at the komodo dragon. Includes the storybook Komodo! by Peter Sis, monitor lizard model, activity sheets and news articles.

PUFFIN KIT Includes 2 storybooks about puffins, a puppet and teacher's guide.

RAIN FOREST "MINI" ZOOCASE Is the regular Rainforest Zoocase unavailable? Then check out the next best thing. This scaled down version contains finger puppets, activity book, teacher's guide and a game involving poison dart frog models. Recommended for grades K to 6.

STELLALUNA KIT Contains the storybook Stellaluna by Janell Cannon and a bat hand puppet.

VERDI KIT Contains the storybook Verdi by Janell Cannon and a snake hand puppet.

THE VERY HUNGRY CATERPILLAR KIT Contains the storybook The Very Hungry Caterpillar by Eric Carle and two puppets.