Learning Resources

Fascinating micro-photograhy and animated graphics, outstanding nature photography, watch in vivid detail the wonder of life in delicate communities, observe step-by-step presentations, its all here.

Adaptations For Survival In The Sea

Grade 4 - Habitats and Communities; Basic concepts: the food chain as a system; structural adaptation of animals that demonstrate a response to the living things in their environment; the need to live in specific habitats to survive.

Using underwater photography, this program explores some of the techniques sea creatures use in adapting to their environment for survival.

Camouflage; intentional colouration; hiding; staying in groups; body armour; venom.

Different animals have taken advantage of different food sources, some feeding at the top of the food chain and others at the bottom. Every animal is both predator and prey.

Ages 9 to 11, Ages 12 to 14
19 minutes, order 1-8990-IN

African Apes And How They Live

Video Laserdisc

AFRICAN APES AND HOW THEY LIVE (INTERMEDIATE LEVEL NARRATION

Fact-filled narration and beautiful photography combine to present the lives, habits, and social systems of the most human-like animals on earth at home in Africa's tropical rain forests.

Ages 9-14
17 minutes, order 1-86001-IN

Amphibian Egg Development

Grade 8: Life Systems

Fascinating microphotography and animated graphics show the development of a tiny salamander egg from a single cell to larva. Key terms for each phase are provided, and the changing embryo is viewed from several angles, providing a clear look into this intricate life process.

Available in CD-ROM and VHS

Ages 15 to 18, Post Secondary - Introductory
11 minutes, order 1-8266-IN

Animal Life In A Tidepool

Grade 4 - Habitats and Communities; basic concept; animals and plants live in a specific habitat beacuse they are dependent on it and adapted to it.

Grade 6 - Diversity of Living Things: basic concept: compare the characteristics of different kinds of arthopods.

Outstanding nature photography vividly depicts the wonder of life in these delicate communities, uncovering many fascinating animals, including sponges, anemones, tubeworms, barnacles, mussels, sea urchins, starfish, sea cucumbers, limpets, slugs, and crabs. Includes brief discussion of ocean tides. Also available as a Level I laser video disc.

Ages 9-14
12 minutes, order 1-8384-IN

Animal Reproduction

Grade 6 - Diversity of Living Things: Basic concept: Explain why formal classification systems are ususally based on structural characteristics (i.e. reproductive systems) rathan than on physical appearance; identify characteristics of vertebvrates and use these to classify as mammals, etc.

Uses vivid photography and colourful diagrams to show how animals reproduce sexually and asexually.

Different species have evolved to use the method which works best for them given the environment and conditions in which they live.

Asexual reproducers shown are the hydra and the paramecium. shown is the paramecium, which divides in half to form two new paramecia.

Most animals reproduce sexually, where a sex cell from each parent unites to form a new individual. Shows how chromosomes determine the attributes of the new individual.

This program is a visual overview of the subject. Advance preparation for terms used may be required. Animal reproduction, where shown, is age appropriate.

Ages 9 to 11, Ages 12 to 14
16 minutes, order 1-9122-IN

Banking Our Genes: Ethical & Legal Consequences

Genes are vast storehouses of information. They provide a unique “fingerprint” of each individual. Research into the genetic information in DNA has opened up exciting new possibilities. Yet who has access to DNA information and how it is used? This important new documentary invites viewers to think about the ethical, legal, public policy and privacy issues involved in DNA banking.

An excellent starting point for serious discussion.

Adult, Professional
33 minutes, order 9-7196-IN

Bees And How They Live

Laser Videodisc

The fascinating secret life of three classes of honey bees: queen, workers, and drones.

Witness a complete metamorphosis from the laying and fertiliizing of eggs, through the emergence from its cell.

Ages 9-14
15 minutes, order 1-86311-IN

Beneath The North Atlantic

The Beneath The Sea Series

Grade 4 - Habitats and Communities. Grade 6 - Diversity of Living Things.

Fascinating journey through the temperate waters of the North Atlantic Ocean shows the feeding, swimming, and breeding habits of many unique marine creatures. Learn where this sea life can be found and how they protect themselves and thrive in this environment.

Ages 12 to 14, Ages 15 to 18, Adult
28 minutes, order 1-8569-IN

Beneath The South Pacific

The Beneath The Sea Series

Grade 4 - Habitats and Communities. Grade 6: Diversity of Living Things. Stunning photography captures the voyage of the Oceanic Research Group to the tropical Pacific. Enter the world of marine biologists and meet many of their unique and beautiful animal subjects: octopods, sharks, moray eels, symbiotic fish, giant clams, crinoids, marine turtles, dolphins, and much more.

Ages 9 to 11, Ages 12 to 14
25 minutes, order 1-8846-IN

Beneath The Caribbean

The Beneath The Sea Series

Grade 4 - Habitats and Communities. Grade 6 - Diversity of Living Things

Unlike the fertile waters of temperate oceans, the Caribbean Sea is warm and clear - and nutrient-poor, due to the scarcity of plankton and suspended particles. In order for life to flourish in these harsh tropical conditions, sea creatures have evolved complex methods to capture food.

Spectacular footage illustrates how mangroves and coral reefs form the bases of the tropical ocean ecosystem. The program instills respect and understanding for creatures of the seas.

Available on CD-ROM and VHS

Ages 9-14, Adult
23 minutes, order 1-8882-IN

The Biology Essentials Cd-rom Series

The Biology Essentials Cd-rom Series

A complete biology curriculum. Each CD-ROM or LaserDisc contains video chapters (25 minutes total); random access, interactive browsing; interactive quiz; bulletin board; test with record keeping; interactive glossary; teacher management system (password protected).

The teacher management system allows teachers to write and edit quiz questions; write and edit test questions; track student scores; create and edit bulletin board information; print quizzes, tests, scoring keys and bulletin boards; and print class rosters with scores by name or code.

The Human Body: The Ultimate Machine

Details the functioning of each of the human body's major systems including the muscular, circulatory, respiratory, digestive, skeletal, urinary, endocrine, lymphatic, nervous, and reproductive systems. Realistic 3-D animation, exciting footage of actual surgical procedures, and microphotography take students on a concise and incredible journey through the human body.

Also introduces students to how physicians obtain a wealth of information about patients through observation and simple tests.

CD-ROM only, order 1-8997

Cells: The Building Blocks of Life

Introduce cells as the building blocks of life and the two basic types of cells - eukaryotic and prokaryotic.

Detailed 3-D animation illustrates the major components of prokaryotic cells including the nucleus, nuclear membrane, gelgi bodies, microtubules, microfilaments, and cytoplasm.

The importance of the cell membrane in the processes of diffusion, osmosis, and active transport are illustrated. Cellular processes such as respiration, photosynthesis, and reproduction are also discussed.

CD-ROM only, order 1-8998

The Web of Life: Producer to Predator

A visual excursion into the world of energy pyramids, food chains, and nutrient cycles.

Ecosystems serve as examples for discovering how organisms adapt to unique environments. Abiotic factors such as temperature, precipitation, nutrients and geography play a critical role in the survival and evolution of populations in these environments.

Water, carbon, nitrogen, and phosphorous cycle between the biotic and abiotic worlds, and in doing so, transfer energy from the sun to fuel life. Life takes enumerable forms in the organisms of Earth, and these organisms fill their niches in remarkable ways. The variation of these organisms and the relationship between them are investigated.

The niche of humankind is also explored. Will our creativity lead to survival or extinction? Wander through these ecosystems and consider the options.
CD-ROM only, order 1-8999

Genetics and Heredity: The Blueprint of Life

Illustrates the structure of DNA and the processes of mitosis and meiosis using high quality 3-D animation. It explains how traits are passed between generations, the differences between pure and hybrid traits, recessive and dominant genes, and the use of the Punnett square to predict the probability of offspring inheriting a given trait.

The program also loooks at common genetic disorders and the importance of genetics in medicine and biotechnology.
CD-ROM only, order 1-9078

The World's Biomes: Desert to Rainforest

Introduce students to how various physical forces determine the climate of a biome and, in turn, the density of life within a given biome.

Take students on a journey through rainforests, deserts, grasslands, coniferous forests, alpine tundra, deciduous forests, and marine and freshwater biomes.

Throughout the journey, the adaptations that different organisms make to their environment are highlighted.
CD-ROM only, order 1-9079

Classification: Bringing Order to Diversity

Explains how biologists try to organize 4.5 million species of life and how they document the process of evolution.

Scientists have developed a system of classification that groups all living things into five kingdoms - these kingdoms group organisms based on major differences in structure.

The kindoms Monera, Protists, Fungi, Plantae, and Animalia are each unique in structure, function and organization at the cellular level. These unique differences are shown and explained.

The program investigates the unique characteristics of living organisms and describes some of the major divisions within these five kingdoms.

Although the science of classification is still being discussed and modified, the system works wel to help provide order to a world with an incredible diversity of life.
CD-ROM only, order 1-9080
Ages 15 to 18, Ages 12 to 14
minutes, order 1-89970-IN

The Brain And Spinal Cord

Grade 8 - Cells, Tissues, Organs, and Systems: Basic concept: describe the organization of cells into tissues, organs and systems.

All animals act in response to stimuli and that action is controlled by the brain, spinal cord, and nerves.

Using diagrams, live action, and microphotography, this program examines the functioning of animals' nervous systems. Animation and cross section models illustrate parts of the nerve cells and the brain, while...in a series of laboratory experiments...a monkey's memory is tested to demonstrate how the cerebrum works.

Available in CD-ROM, Laser Videodisc, video.
Ages 12 to 14, Ages 15 to 18
15 minutes, order 1-8280-IN

Challenges Of Our Time: Euthanasia

The Life Choices Series

Explores whether the right to die should be given as much weight as the right to live; and who should decide an individual's fate.
Ages 15 to 18, Adult
30 minutes, order 5-4272-IN

Circulation Of The Blood

Grade 5 - Human Organ Systems: Basic concept: describe the basic structure and function of the major organs in the circulatory system.

The human body requires a constant supply of oxygen and nutrients to its billions of cells, and the constant removal of carbon dioxide and water. These tasks are performed by the blood.

In this examination of the circulatory system, colourful animation documents the process that keeps human beings alive. The program explains the function of each part of the heart, shows how matter is exchanged in the cells, and illustrates the role of the nervous system in regulating the heartbeat.

Available in CD-ROM, VHS and Laser Videodisc
Ages 12 to 14
24 minutes, order 1-8281-IN

Coral Reef: A Living Wonder

An exciting journey to the colourful world of coral reefs in the Pacific Ocean and Caribbean.

Shows how tiny creatures called coral polyps build reefs - the largest structures on earth. Explains how coral reefs play an integral role in the life cycle of the tropical seas. Introduces some of the thousands of fish and invertebrates that inhabit these living animal colonies.

Ages 12-18
24 minutes, order 1-8634-IN

Drugs: How They Affect Body Chemistry

Clearly shows ways in which drugs - from aspirin to cocaine - affect and interact with the natural functioning of the human system.

Ages 12-18
22 minutes, order 1-8152-IN

The Drugs And Human Physiology Series

Alcohol and Human Physiology

Effects of alcohol on the body's major organs and systems; a lesson in chemistry, physiology, psychology and sociology. *Also available in Laser videodisc*
Order 1-9769 24 mins

Cocaine and Human Physiology

Harm done to the brain, the lungs, and the heart; causes of cocaine-induced death described; effects on the fetus and infants of user mothers. *Closed Captioned. Also available in Laser videodisc.*
Order 1-9899 20 mins

Designer Drugs and Human Physiology: Crack, Cocaine

Ill-effects these drugs cause are weighed against the fleeting moments of enjoyment; recovering addicts warn that harm done to vital organs is permanent. *Also available in Laser videodisc.*
Order 1-8108 14 mins

Designer Drugs and Human Physiology: PCP, Ecstasy, Fentanyl

PCP, Ecstacy, and Fentanyl are clinically described as concentrated synthetics illegally formulated in clandestine laboratories for enormous profit. The physiological effects of introducing toxic ingredients into the bloodstream are shown to be devastating to the body's cardiovascular and neurological systems. *Also available in Laser videodisc.*
Order 1-8113 19 mins

Hallucinogens and Human Physiology

Looks at different forms of hallucinogens - synthetic and organic - and their impact on the body and brain.
Order 1-8635 16 mins

Marijuana and Human Physiology

Dispels the belief that marijuana offers only harmless recreation with hard facts about the drug and its effects on the body. *Closed Captioned. Also available in Laser videodisc.*
Order 1-9832 22 minutes

Over the Counter Drugs and Human Physiology

Describes the major categories of this group, explaining why administered and how they achieve their effects; explores damage caused by abuse.
Order 1-8279 14 mins

Psychoactive Prescription Drugs and Human Physiology

Explains the harmful and potentially life threatening effects of misuse or abuse; “tolerance” levels in relation to addiction; withdrawal symptoms.
Order 1-8278 18 mins

Smoking and Human Physiology

This award winner shows why smoking is an epidemic in slow motion. Explains how cigarette manufacturers must obtain seven thousand new smokers daily to replace those who have died.
Order 1-8842, 19 mins

Heroin and Human Physiology

Graphic description of the effects of heroin on the body, also warns against sharing of needles. *Also available in Laser Disc format.*
Order 1-9961 22 mins

Inhalants and Human Physiology

Illustrates the severe and sometimes fatal consequences of this form of substance abuse. *Closed Captioned*
Order 1-8636 13 mins
Ages 16 to Adult
minutes, order 1-97690-IN

Ecosystem Of A Pond

Animals And How They Live Series

Grade 6: Diversity of Living Things: Basic concept: describe microscopic living things.

Grade 4: Habitats and Communities: Basic concept: recognize that plants and animals live in specific habitats.

Explores a tranquil pond to show an ecosystem teaming with life. Remarkable photography allows up close examination of creatures living on and in the water. The chloroplast in spirogyra and cells in pond weed are examined under a microscope. Encourages exploration and appreciation for the delicate balance that exists in any ecosystem.

Available in CD-ROM and VHS

Ages 9 to 11, Ages 12 to 14
18 minutes, order 1-8397-IN

Ecosystems: Nature In Balance

Grade 7 - Interactions Within Ecosystems: Basic concept: identify and explain the roles of producers, consumers and decomposers in food chains. Grade 6 - Diversity of Living Things.

Explores the ecosystem as a food chain with producers (plants), consumers (animals), and decomposers (bacteria and waste), showing how relationships in an ecosystem work and depend on each other.

Available in CD-ROM, VHS and Laser Videodisc

Ages 9-14
13 minutes, order 1-8559-IN

Egg-laying Mammals: The Echidnas And Platypus

This fascinating film shows echidnas (spiny anteaters) and platypus in their natural habitats in Australia and New Guinea, and contains some of the first footage ever obtained of the young breaking out of the egg and being suckled by the parent.

Ages 9 to 11, Ages 12 to 14
19 minutes, order 1-8026-IN

Fetal Development: A Nine-month Journey

Laser Videodisc

A special inside view of the in-utero process throughout the nine months of pregnancy.

From initial cell division to birth, a fibreoptic camera takes you through each stage of embryonic growth.

Ages 12-18, Post Secondary - Introductory
15 minutes, order 1-81371-IN

Fetal Development: A Nine Month Journey

Fibreoptic images from inside the womb blend with ultrasound images, schematic drawings, and animation to describe each stage of fetal development. For every mother and father to be.

Ages 15 to 18, Post Secondary - Introductory, Adult, Professional
15 minutes, order 3-2003-IN

Genetic Engineering

The Life Choices Series

An investigation of the ways in which human cells can be altered for positive or negative results.

Ages 15 to 18, Adult
30 minutes, order 5-4278-IN

Human Blood Circulation

Through live action, macrophotography and animation, program explains the functions of the blood and its vital role in the circulatory system.

Also available in Laser Videodisc format (order 1-87571).

Ages 12 to 14, Ages 15 to 18
15 minutes, order 1-8757-IN

Human Blood Circulation

Laser Videodisc

Through live action, macrophotography and animation, program explains the functions of the blood and its vital role in the circulatory system.

Also available in Video Cassette format (order 1-8757).

Ages 9-14
14 minutes, order 1-87571-IN

The Human Brain

Grade 8 - Cells, Tissues, Organs and Systems; Basic concept; describe the organization of cells into tissues, organs and systems.

Over the centuries, humans have accomplished remarkable feats in science, technology, art and culture. What has helped us succeed in these areas over all other animals on the earth? The answer is, the human brain, which is considered to be the most powerful computing machine in the world. This fascinating program explains why.

Intricate, microscopic photography, graphics and a cross sectional view of an actual human brain show the unique structural components found within the brain, while the narration explains their corresponding functions.

The brain's profound evolutionary development is compared to that of other vertebrates, and its phases of development within a gestating fetus are explored. The major sections, lobes and cells of the brain are defined, and the program explains the muscle stimulus to nerve impulse process. An inspiring introduction to this complex and wondrous organ.

Available in CD-ROM and VHS formats

Ages 12-18
14 minutes, order 1-8495-IN

Human Digestive System

Grade 5 - Human Organ Systems: Basic concept; Describe the basic structure and function of the major organs in the digestive system.

All humans need energy to live and grow, and that energy comes from food. But food must be digested by the body so that all useful nutrients can be absorbed.

With endoscopic pictures, diagrams, photomicrographs, and laboratory experiments, this program shows how the human digestive system works. It carefully documents the process from the time food passes down the esophagus to the stomach, concluding with the processing of undigested residue in the large intestine. By Educational Media

Also available in CD-ROM and Laser Videodisc.

Ages 15 to 18, Adult, Ages 12-18
18 minutes, order 1-8282-IN

Human Genome Testing: Your Genetic Future

Healthy Living: Road To Wellness Series

Students are bound to engage in heated discussions on the ethics of genetic screening tests. This explosive program centers ono the Human Genome Project (DNA testing for abnormalities), and the potential uses and abuses of genetic screening tests by health insurance companies and employers.

Ages 16 to Adult
30 minutes, order 5-4979-IN

Human Population Growth

Healthy Living: Road To Wellness Series

Non-renewable resources are being consumed at unsustainable levels and producing waste that cannot be biodegraded and recycled. This program promotes ecological sensitivity by examining problems threatening the earth's environment and the delicate balance of its ecosystem. Students consider over population, acid rain, the ozone crises and water pollution.

Ages 16 to Adult
30 minutes, order 5-4982-IN

Insects: Reproduction And Metamorphosis

Growth and Changes in Animals: Basic concepts: Describe the changes in the appearance and activity of an animal as it goes through a complete life cycle.

Documents the life cycles of various insects, from reproduction to adult, and shows how the insects adapt at each stage.

In vivid detail, the reproduction and metamorphosis of the large diving beetle, swallowtail butterfly, fruitfly, locust, and dragonfly are shown. The segment on the swallowtail butterfly is particularly remarkable. Also explored are the changing food requirements and common habitats of each of the insects. The quickly evolving physical characteristics of each insect at each stage of development are expertly depicted and thoroughly discussed.

Also covers the development of insects' pigmentation; the formation of a caterpillar's cocoon; and each stage of metamorphisis. Defines and discusses the purpose of the ovipositor in the fruitfly and locust, as well as “incomplete metamorphosis” and the completion of metamorphosis as the beginning of a new reproductive cycle. From FWU Productions.

Ages 6-11
20 minutes, order 1-8393-IN

Investigating The Nervous System

This tastefully done program enhances biology study through sophisticated research that is not available to the average biology student. A thought-and-question provoking program. Media Profiles, Health Sciences Examines several methods that scientists use to investigate the nervous system of vertebrates, including behavioural experiments with animals, dissection, section cutting, and the use of electrical equipment to monitor changes in nervous tissue and muscle.

Available in CD-ROM or VHS

Ages 9 to 11, Ages 12 to 14
19 minutes, order 1-8020-IN

Kidney Functions

Grade 5 - Human Organ Systems: Basic concept: describe the basic structure and function of the major organs in the excretory system.

The body is able to remove useless or potentially harmful waste materials by filtering blood through the kidneys.

This program explains the process, showing how the network of blood vessels in a frog's kidney works to extract waste material. Microphotography traces the progress of harmless blue pigment as it is filtered through the kidney's blood vessels, then carried away by the ureter to the bladder.

Available in CD-ROM, VHS and Laser Videodisc.

Adult, Ages 12-18, Ages 15 to 18
5 minutes, order 1-8283-IN

Life And The Structure Of Hemoglobin

The secrets of Nature. An extraordinary account of the structure of hemoglobin and its roles in carrying oxygen to every cell in body.

Ages 15 to 18 Adult
29 minutes, order 1-4112-IN

Lifetimes Of Change: Development And Growth

Dissolves show the changed appearance of a person from infancy to old age, then the lifespan of a toadstool, a frog, and a flowering plant are condensed to pass in minutes to make the point that as the years go by every living thing changes. Making it clear that change is a normal part of growth, this gentle, sensitive film's ideas of birth, growth, change, and decay are relevant to many areas of study.

Also available in laser videodisc.

Ages 9 to 11, Ages 12-18
17 minutes, order 1-8012-IN

Living Cells

Grade 5 - Human Organ Systems; Basic concept: identify the cell as the basic unit of life.

Spectacular microphotography reveals living cells as students observe the internal movements of cell components, the movements of the cell surface and in some cases, active movement of the entire cell.

Available in CD-ROM, VHS and Laser Videodisc.

Ages 9 to 11, Ages 15 to 18, Ages 12-18, Adult
14 minutes, order 1-8023-IN

The Lungs

Grade 5 - Human Organ Systems; Basic concept: structure and function of the major organs in the respiratory system. Grade 8 - Cells, Tissues, Organs and System.

Using typical land mammals as examples...the horse, sheep, and dog...this film focuses on lung and air passages. It demonstrates that the respiratory system of mammals enables exchange of gases between blood and external environment.

The lung's structure is shown through dissection of a sheep's lung. Reinflation of living lung tissue and the appearance of the lungs during breathing are shown at the end of a chest operation on a dog at a veterinary clinic. Radio-cinematography shows how diaphragm and rib movements alter the volume of the chest cavity.

Available in CD-ROM, VHS and Laser Videodisc.

Ages 15 to 18, Adult, Ages 12-18
10 minutes, order 1-8018-IN

The Mammalian Heart

Grade 5 - Human Organ Systems; Basic concept; describe the basic structure and function of major organs in the circulatory system. Grade 8 - Cells, Tissues, Organs and Systems.

The structure and functional of the mammalian heart is explained by using the heart of the sheep and the dog as examples. The sheep's heart is used to show external features and internal structure. Then the appearance of a living heart is shown during a routine chest surgery on a dog at a veterinary clinic.

Available in CD-ROM, Laser Videodisc and video.

Ages 15 to 18, Post Secondary - Introductory
15 minutes, order 1-8019-IN

Meiosis And Mitosis: Fertilization And Sexual Reproduction

Striking microphotography and colour animation illustrate the various cellular processes involved in reproductive development in vertebrates and invertebrates. Covers internal and external fertilization, meiosis and mitosis.

Program comes with a comprehensive discussion guide.

Available in CD-ROM and VHS formats

Ages 12 to 14, Ages 15 to 18
23 minutes, order 1-8878-IN

The Meiosis Square Dance

This colourful, animated adventure introduces students to the biological process of meiosis by presenting a wacky square dance held in the testes of Drosophilia Melanogaster—also known as Dross the fruit fly.

Dino and Dina Chromosome coil up and hoe down as they duplicate, crossover, separate and dance their way through the different phases of meiosis, Interphase, Prophase, Meraphase, Telophase and Cytokinesis.

Humourous sing-along lyrics reinforce the concept of meiosis as students laugh and sing their way to a better understanding of genetics and reproduction.

Ages 12-18
10 minutes, order 1-2502-IN

Microbes: Bacteria And Fungi

Grade 7: Interactions Within Ecosystems: Basic concept: Identify micro-organisms as beneficial and/or harmful.

Bacteria and fungi carry on all the processes necessary for life...they grow, get energy from food, move, and reproduce. In this program, the physical characteristics, the risks and benefits to humans, and the ways to impede and prevent the growth of microbes are examined. Biology and scientific method are taught in a context familiar to students...through food.

Practical everyday examples are correlated with scientific investigations at school. Common foods, such as pizza dough, mushrooms, and yogurt, illustrate the results of beneficial microbes. At school, teenagers and their science teacher grow fungi on an orange.

As Jennie and Dan prepare a meal for a friend, they learn various methods food preservation: canning, refrigeration, freezing, dehydration, pasteurization, and irradiation.

Available in CD-ROM, VHS and Laser Videodisc.

Ages 9 to 11, Ages 12 to 14
17 minutes, order 1-9775-IN

Newts And How They Live

Animals And How They Live Series

This new program provides a fascinating introduction to the life cycle of the flat tailed salamanders called newts.

Sequences filmed in the newts' wetland homes reveal how the animals have adapted to survive in their damp and shady environment. Newts, like all amphibians, are cold blooded; their body temperatures change with that of their surroundings. Their sense of smell is highly developed...important in catching insects and worms to eat and avoid their many predators, which include birds, mammals, and snakes. Since newts cannot run fast...their legs are too small and weak...they protect themselves by simply staying out of sight.

The program provides an absorbing look at the characteristics newts have in common with all amphibians, and the specific traits they've evolved to ensure their continued existence.

Ages 9-14
11 minutes, order 1-8270-IN

Odyssey To Antarctic

Newton's Apple Series

Ages 12 to 14
30 minutes, order 5-5000-IN

Our Future Selves: Aging In America

Healthy Living: Road To Wellness Series

The later years do not have to be fraught with sickness and senility, isolation, depression or sexual inadequacy. Students get a fresh perspective on aging as this program focuses on the biological and cognitive changes of human growth; how biological, psychological and sociological changes that accompany aging need not be debilitating.

Ages 16 to Adult
30 minutes, order 5-4981-IN

Our Living World: Parasites

Our Living World Series

Grade 7 - Interactions Within Ecosystems: Basic concepts: Identify micro-organisms as beneficial and/or harmful; Identify populations of organisms within an ecosystem and the factors that contribute to their survival.

Clear presentation of the numerous species of parasites and the kingdoms (monera, protist, fungi, animal) to which they belong.

Illustrates the life cycles of different parasites and explains the parasite/host relationship. Also describes the impact of parasites on humans, the infections and diseases they cause, and the preventive and curative measures we can take.

Available in CD-ROM and video.

Ages 15 to 18
22 minutes, order 1-8877-IN

Our Living World: The Fungi Kingdom

Our Living World Series

Grade 7 - Interactions Within Ecosystems; Basic concept: Identify micro-organisms as beneficial and/or harmful; Identify populations of organisms within an ecosystem and the factors that contribute to their survival.

Clear narration and photography cover the range of fungi species, including mushrooms, molds and yeasts. Program explains the differences between the fungi kingdom and the plant kingdom. Illustrates the heterotrophic functions of both the saprophytic and parasitic varieties of fungi. Explores the dangers and benefits of various fungi species to humans.

Accompanied by a comprehensive discussion guide.

Ages 16 to Adult
13 minutes, order 1-8880-IN

Photosynthesis

Grade 3: Growth and Changes in Plants

Various aspects of photosynthesis - the process that enables green plants to use the sun's energy to live and grow - are examined.

The program shows students why whenever they see plants, animals, people working, planes flying, or cars travelling on the highway, they are seeing the results of photosynthesis.

Available in CD-ROM and VHS formats

Ages 9 to 11
12 minutes, order 1-8595-IN

Photosynthesis / Plants In Action

Laser Videodisc

Learn how photosynthesis enables green plants to use the sun's energy to live and grow, make our food, some of our clothes, and the wood in our homes.

Observe the complex activity of plants growing and responding to changes in their environments, from the opening of leaves and flowers to the sending of tendrils.

Ages 9 to 11, Ages 12-18
10 minutes, order 1-75201-IN

A Race Between Microbes And Science

Healthy Living: Road To Wellness Series

Tuberculosis claims 3 million lives annually. Hepatitis is common. Legionnaires' disease and Ebola fever are just a few of the “new” plagues. And people on all continents are besieged by microbes. This program examines how our immune system is built to fight off microbe invaders, and how preventive strategies may forestall coming plagues.

Ages 16 to Adult
30 minutes, order 5-4974-IN

Reproduction In Organisms

Grade 6 - Diversity of Living Things: Overall expectation: Investigate classification systems and some of the processes of life common to all animals (e.g. reproduction).

This program develops the concept that all life is dependent on reproduction for its continued existence. It is divided into three parts.

The first part conveys an impression of the large numbers of potential offspring produced by most species...far more in number than the generation that produces them. These offspring often bear little resemblance to their parents. Close-up photography shows the egg laying and hatching activities of a green turtle, garden snail, beetle, butterfly, lacewing spider, and a nudibranch.

The second part explains sexual forms of reproduction, using rock oysters, marine green algae, leopard slugs, and a flowering plant as examples. Gametes and fertilization are defined. Water is shown to be an effective carrier of gametes and an aid to their union.

The third part explains asexual reproduction, in which new organisms are derived from a single parent's cells. The program shows zoospore production by a filamentous algae. By

Educational Media in association with the Australian Academy of Science School Biology Project.

Also available in laser videodisc

Ages 15 to 18, Adult, Ages 12-18
16 minutes, order 1-8021-IN

Science Multimedia Clips Cd-rom

These image files, from the award-winning AIMS Multimedia audiovisual library, may be used for teacher and student multimedia presentations. Compatible with popular authoring programs, including HyperStudio and Director. Includes mammals, reptiles, birds, fish, amphibians, insects, dinosaurs, space, biology, weather, and the human body. Licensed for non-commerical use only.

Includes 165 Quick Time Movies and 407 Still Images

All Ages
minutes, order 1-1009-IN

Transplanting Fetal Tissue

The Life Choices Series

Explores the ethical dimensions of transplanting fetal tissue.

Ages 15 to 18, Adult
30 minutes, order 5-4279-IN

When The Brain Goes Wrong

Various segments focus on schizophrenia, manic depression, epilepsy, head injury, headaches, and addiction, including interviews with physicians who describe each disorder and how to treat it. *Close Captioned.*

Ages 15 to 18, Adult
52 minutes, order 9-7188-IN

Women In Science

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