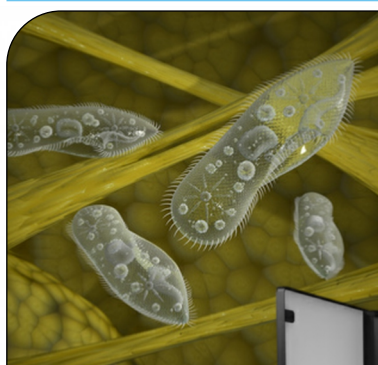




SCIENCE DVD 2017 CATALOGUE



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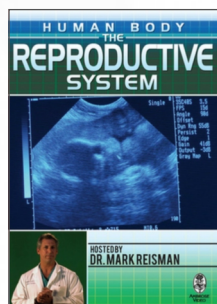
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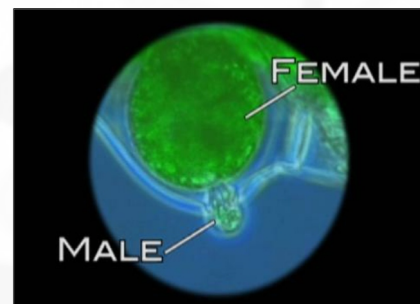
BIOLOGY DVD

Cat.# BM-34D - HUMAN BODY: THE REPRODUCTIVE SYSTEM



Of the body's major systems only the reproductive organs and structures are different in men and women. There is no greater miracle on the planet than the creation of a new life. There is no greater miracle on the planet than the creation of a new life.

Dr. Mark Reisman takes you through each stage of this miracle, from the genetic basis of life, to the development of sex organs, to the formation of sex cells, to conception, to the emergence of the embryo, to the growth sequence of the fetus, and finally to the birth of a new human life.

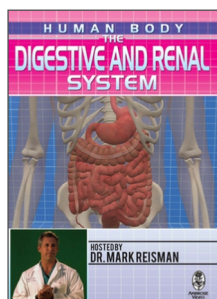


Chapters: Evolution of Sex, Genetics, Morphogenetics and Pregnancy, Female Reproductive Organs, Male Reproductive Organs, Human Mating, Female Puberty, Male Puberty, Sex.

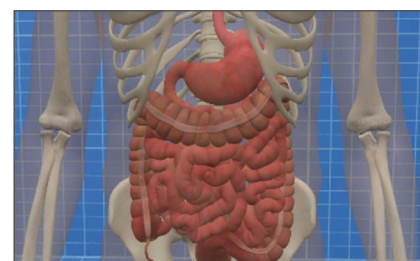
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Cat.# BM-32D - HUMAN BODY: THE DIGESTIVE AND RENAL SYSTEMS



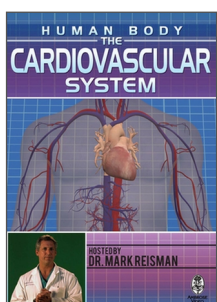
The human body needs to take in food and water found in the environment, and through an almost miraculous sequence of mechanical and chemical processes, it converts that food into nutrients that sustain all the body's activities. The digestive track alone has nine major organs devoted to this process and the renal track three. Dr. Reisman provides a unique look at the anatomy and physiology of the many organs and structures of digestion. Discover the properties of metabolism and nutrition.



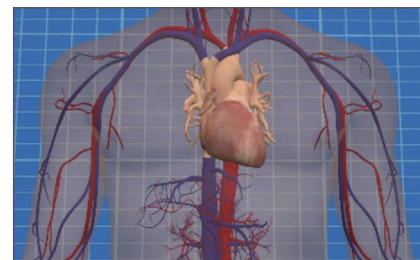
Chapters: Introduction, Food and the Bioweb of Energy, Digestive Organs, Food Processes and the Upper Digestive Track, Lower Digestive Track, Internal Disorders, Anatomy and Physiology of the Liver, Gall Bladder and Pancreas, Renal System, Nutrition.

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Cat.# BM-30D - HUMAN BODY: THE CARDIOVASCULAR SYSTEM



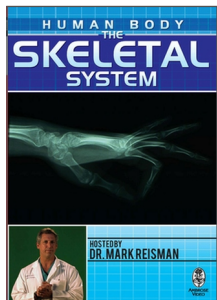
At the centre of the human cardiovascular system is the heart. The human heart is a muscular organ that is a bioengineering marvel. It works flawlessly, 24/7, throughout the lifetime of each individual. See how it delivers blood, a truly miracle substance, to all parts of the human body through a vast network of arteries and veins. Each component of the cardiovascular system's physiology and anatomy is shown in vivid detail.



Chapters: Arteries and Veins, The Heart, Blood, Cardiovascular Anatomy.

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Cat.# BM-6D - HUMAN BODY: THE SKELETAL SYSTEM



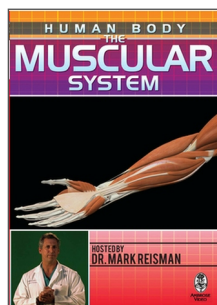
The 206 bones of the human skeleton are a miracle of bioengineering. Lightweight and incredibly strong, our bones give us the ability to walk upright, freeing our hands for precise manipulation of objects. See how the skeleton anchors the muscles and protects our essential organs: the heart, lungs, and brain. Learn how the bones themselves are chemical factories producing our red blood cells.

Chapters: Introduction, Spine, Bones, Bone Composition, Protective Function of Bone, Pelvis Anatomy, Skull, Bone Joints, Cartilage, Bone Diseases, The Living Bone.

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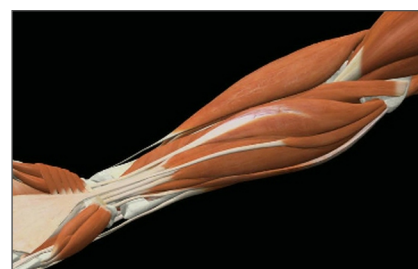
Cat.# BM-18D - HUMAN BODY: THE MUSCULAR SYSTEM



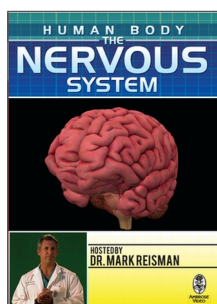
Using the latest in 3-D graphics, medical imaging and cadaver specimens, see the human body's muscular system revealed in ways never seen before.

Chapters: Introduction, Lever Principle, Muscle and Bone Anatomy, Muscle Chemistry, How Muscles Work, Muscular Anatomy and Physiology, Tendons, Ligaments and Fascia, Knee Anatomy, Muscle Disease, Muscles and Exercise, Involuntary Muscles.

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Cat.# BM-20D - HUMAN BODY: THE NERVOUS SYSTEM



The human nervous system starts with the brain, extends down to the spinal cord, and connects to every part of the body through a vast network of fibers known as the peripheral nervous system. At the heart of this system is the neuron, a specialized cell that carries electrical impulses along neural pathways.

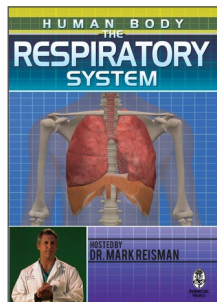
Chapters: Evolution of the Brain, The Three Components of the Nervous System, Brain Anatomy, Primitive Brain, Brain Waves, Nervous System Diseases, Spinal Cord Anatomy.

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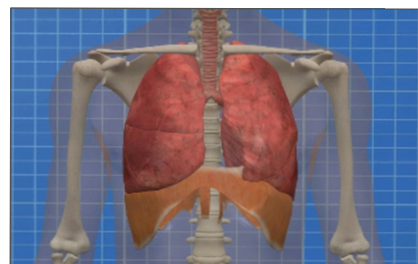
Cat.# BM-31D - HUMAN BODY: THE RESPIRATORY SYSTEM



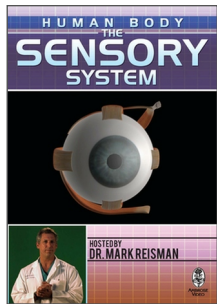
Breathing brings oxygen, found in the air we live in, into a unique set of organs called the lungs. Deep inside the lungs, that oxygen is transferred into the blood system and is used to power all of our muscles, including the muscles that produce breathing. Dr. Mark Reisman takes you first through the structures of the air passageway, the anatomy and physiology of the lungs themselves, and finally reveals the mechanism of the incredible gas exchange between the respiratory and cardiovascular systems. He explains the many human respiratory disorders.

Chapters: Breathing, Air Passageway, Respiratory Structures, Gas Exchange, Exhalation, Respiratory Disease.

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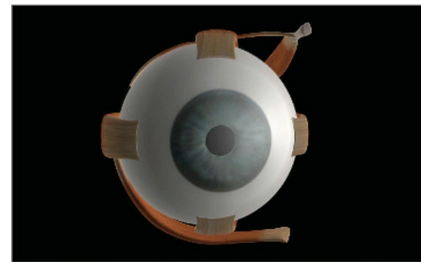
Cat.# BM-33D - HUMAN BODY: THE SENSORY SYSTEM



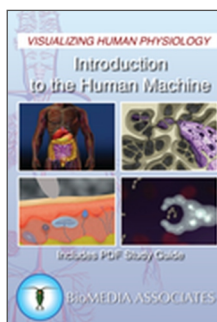
Touch, taste, smell, hearing and sight - the human body's five major senses. They are senses that have evolved independently over millions of years but are brought together by our marvelous central nervous system into the most refined way of interacting with the environment of any species on the planet. Dr. Mark Reisman provides a unique look at the anatomy and physiology of each of these sensory systems and shows how the brain uses them to produce what we call being human.

Chapters: Evolution of the Senses, Touch and Skin, Smell, Taste, Hearing, Sight.

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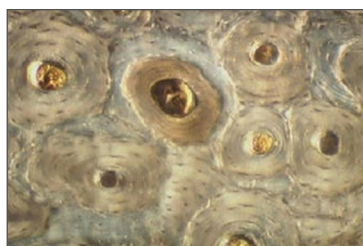
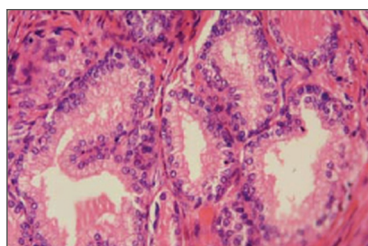
Cat.# BM-4D - VISUALISING HUMAN PHYSIOLOGY - Introduction to the Human



Human beings, like every living organism, are driven by two inherent needs – to survive, and ultimately, to reproduce – that is – to pass our genes on to the future of our species.

To accomplish the goals of survival and reproduction we have inherited bodies finely crafted by evolution so that every one of us, every individual human organism, is an organic super factory – a living machine made up of systems that process fuel, build products, repair damage, expel waste, and defend against invaders.

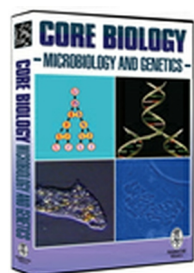
In this premiere program, the complex physiological systems of the human body are introduced – muscular movement, digestion, circulation, respiration, nerves, glands, immunity, and reproduction. The cellular basis of life, and the



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Cat.# AB-16 - CORE BIOLOGY: MICROBIOLOGY AND GENETICS

Microbiology, which includes genetics, is the story of understanding how the cell works. All life is cellular life ... All animal and plant tissue is made up of cells ... All infectious diseases are caused by invading cells ... Cell division is the process of creating all complex life ... And all genetic material is contained within the cell. The many cellular processes and the remarkable micro-world are presented in stunningly clear micro-videography in *Core Biology: Microbiology and Genetics*.



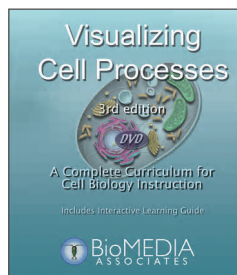
Segments in this program are:

1673 - Anton Leeuwenhoek Describes Microscopic Life, 1838 - The Cellular Basis of Life, 1866 - Mendel's Laws of Inheritance, 1878 - Germ Theory of Disease, 1884 - The Structure of Cells, 1884 - Mitosis and Cell Division, 1905 - Meiosis, 1911 - Genes, 1967 - The Symbiotic Cell.

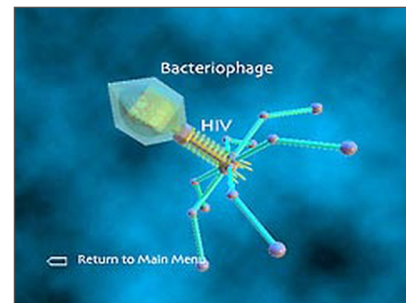
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Cat.# BM-27D - VISUALISING CELL PROCESSES, 3rd EDITION DVD



Visualizing Cell Processes 3rd Edition DVD is a comprehensive program for teaching, learning, and understanding cell processes. The program consists of systematically arranged topics, making it the best tool available for mastering the concepts and vocabulary of cell biology for classroom and self-paced learning. The Interactive Learning Guide on the DVD extends these lessons and covers the AP curriculum. This package includes a bonus DVD containing all five full-play programs (75 minutes). Preview programs at www.msmedia.com.au.

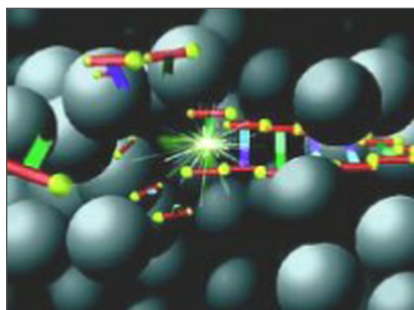


Overview of Living Cells - A Variety of Cells, Cell Organization, The Rise of Bacteria, Cyanobacteria & Oxygen, Eukarya Gets its Start

DNA Structure and Cell Division - Chromosome Condensation, Mitosis, Cytokinesis, Meiosis, Nucleotide Structure & Bonding, Replication Enzymes, Replicating the Strands, The Twisting Problem, Proofreading & Repair

Genetic Code and Protein Synthesis - The Protein Nature of Life, Protein Structure, Transcription, Translation & Protein Synthesis, Gene Regulation in Prokaryotes, Mutations, Introns & Exons

Organic Molecules - Carbon Bonding, Lip Structure, Protein Structure, Nucleic Acid Structure, Carbohydrate Structure



Cell Movement & Transport - The Plasma Membrane, Osmosis, Phagocytosis, Transport Proteins Pinocytosis, Golgi Function, Receptor-Mediated Endocytosis Microtubules, Lysosomes & Digestion Cilia, Motor Proteins

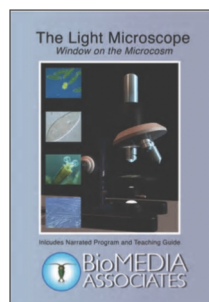
Photosynthesis - Chloroplast Structure, Light Trapping by Chlorophyll, The Light Dependent Reactions, Light Independent Reactions

Cellular Respiration - Glycolysis, Fermentation, Mitochondria, Krebs Cycle, Electron Transport Chain, ATP

Viruses and HIV - T-4 Bacteriophage, HIV Structure & Life Cycle

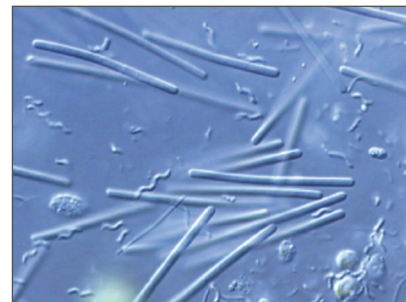
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Cat.# BM-26D - THE LIGHT MICROSCOPE: WINDOW ON THE MICROCOSM



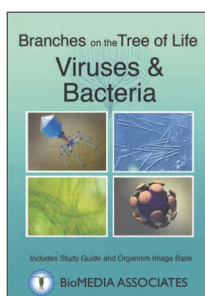
Exploring the microworld can be enhanced using some easily applied techniques that are particularly useful for viewing living organisms. This program illustrates how to manipulate the lens and lighting systems of simple and compound microscopes for the best possible viewing of living organisms and prepared slides. Simple and compound microscopes, the limits of light, functions and techniques are covered in this program. Includes PDF Teaching Guide.

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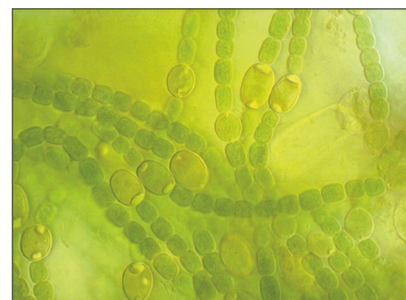
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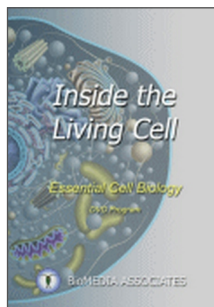
Cat.# BM-29D - THE BIOLOGY OF VIRUSES & BACTERIA



This program describes the discovery of viruses and their structure, how viruses are studied, how they infect their hosts, and how they replicate. Details are provided on the T-4 bacteriophage and retroviruses such as HIV. The bacteria section uses compelling microscopy of living bacteria to examine their structure, physiology, and behavior – and the vital roles these microbes play in the biosphere, including oxygen production (cyanobacteria), decomposition, nitrogen fixation, and as parasites as well as helpful symbionts. Includes PDF Teaching Guide and Image Bank.

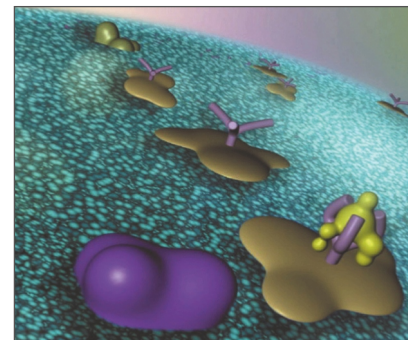
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This highly visual tour of the processes that keep life operating will excite students with a new understanding of these fundamental units of life. Students learn how cells carry out the fundamental processes of life. The menu structure offers over 30 learning chapters that can be discussed and repeated as needed to assure that everyone is up to speed on the content.

Modules can be previewed and purchased individually. See details below.



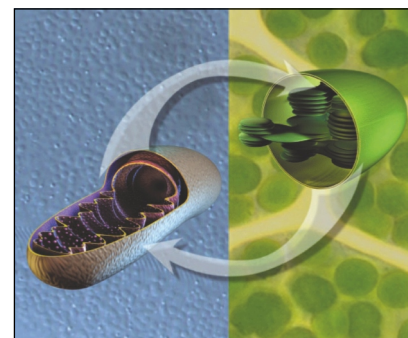
The Cell – Unit of Life - Content: The Discovery of Cells, Cell Structures, Organelle Function, Cell Varieties, The Chemistry of Life

The Outer Envelope - Content: Membrane Structure, Osmosis, Transport Proteins, Active Transport, Cell Eating, Cell Drinking, Receptor Proteins

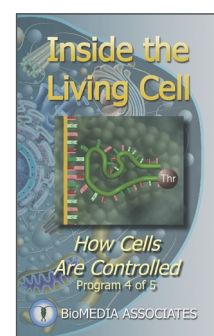
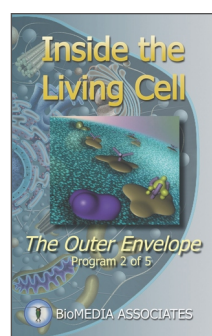
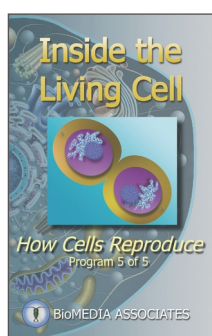
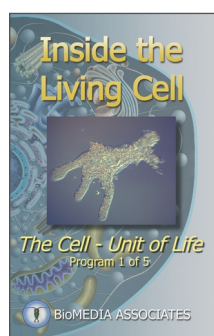
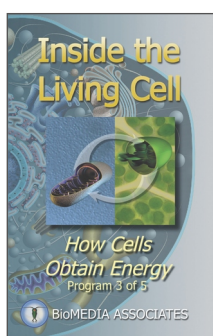
How Cells Obtain Energy - Content: ATP and Chemical Energy, Mitochondria, Aerobic Respiration, Chloroplasts, The Reactions of Photosynthesis

How Cells are Controlled - Content: The Protein Nature of Life, Enzymatic Reactions, Amino Acids and DNA, How Proteins are Built Turning on Genes

How Cells Reproduce - Content: DNA Structure, Replicating DNA Mutations Change the Genetic Code Proofreading and Repair, The Stages of Mitosis



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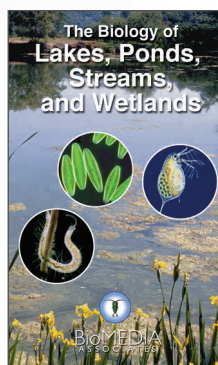


Individual titles of the Inside the Living Cell DVD, are also available.

See prices for these DVD titles on [page 23](#)

BOTANY & ZOOLOGY DVD

Cat.# BM-1D - THE BIOLOGY OF PONDS, STREAMS AND WETLANDS



The Weedy Shallows: Hydras, planarians, annelids, aquatic insects, rotifers, and protists, all interesting organisms that provide food for fish and other vertebrates.

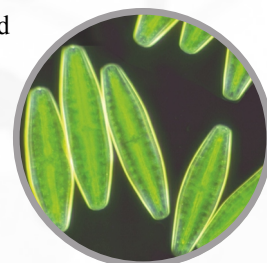
Open Water Environments: Adaptations are observed in Daphnia and other cladocerans, copepods, rotifers, and planktonic algae.

Bottom Environment: Explores bacterial decomposition, recycling of materials, and ecological relationships in the bottom community.

Stream Life, Inhabitants, and Adaptations: This section takes a revealing underwater look at the highly specialized organisms that live in rapids, under rock communities, and in slower waters.

Wetlands: Investigates adaptations for life in wetland environments.

© 2006 Closed Caption - 45 minutes



Cat.# BM-2D - THE BIOLOGY OF THE SEASHORES



Abiotic and Biotic Factors: Tides, wave shock, desiccation, and food.

Adaptations for Wave Shock: The variety of body forms and structures found in an environment ripped by waves.

Defense: Examines structural, chemical, and behavioral adaptations that protect animals in this crowded environment.

Feeding: Looks at adaptations used to harvest the abundant food sources of the shore.

Reproduction: Examines asexual and sexual strategies and the importance of larval development in the plankton.

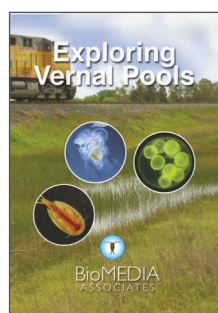
Rocky Shores, Sandy Beaches, Mudflats, Docks: Reveals complex webs of life living in these accessible habitats.

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Cat.# BM-3D - EXPLORING VERNAL POOLS



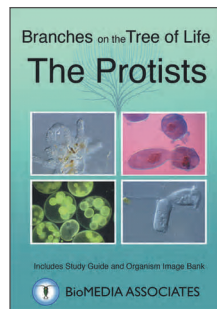
The Seasonal temporary wetlands, commonly known as vernal pools, are a menagerie of diverse and fascinating organisms. This program contains two parts: a non-narrated observation section and a fully narrated instructional section, including tips on how to collect and examine live organisms in the classroom or lab.

It examines a diversity of vernal pool species from several groups: protozoans, bacteria, rotifers, flatworms, ostracods, waterfleas, copepods, clam shrimp, fairy shrimp, tadpole shrimp, and aquatic insect larvae.

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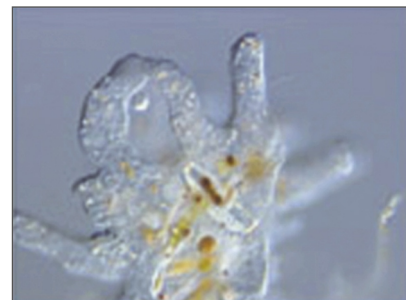


Cat.# BM-5D - THE BIOLOGY OF PROTISTS

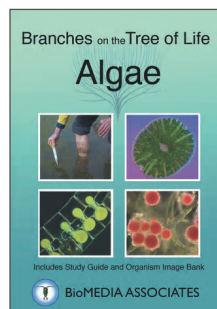


The term protist covers a wide range of microscopic organisms formerly clumped into “Kingdom Protista.” New molecular analyses show that the protistan lines of evolution go so far back in time they can be considered as different kingdoms of life. Through stunning photography of living protists, students are introduced to amoebas, flagellates, algae, and the elegant ciliated protists in ten learning modules. The DVD offers 22 minutes of additional observations allowing detailed study of these fascinating single cell life forms.

© 2004 Closed Caption - 45 minutes

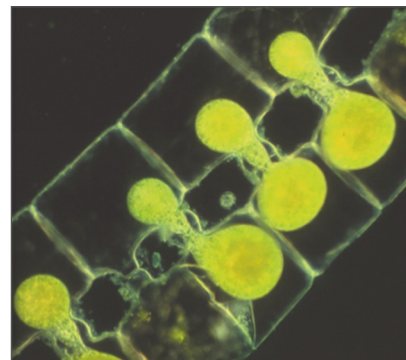


Cat.# BM-7D - THE BIOLOGY OF ALGAE



The term algae is a catchall for several evolutionary lines of photosynthetic organisms: dinoflagellates, red algae (plastids with chlorophyll A), diatoms, yellow-brown algae and brown algae (chlorophylls A and C), and green algae (chlorophylls A and B). This program explores the diversity, structure, ecological roles, and modern classification of these vital primary producers.

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Cat.# BM-16D - THE BIOLOGY OF FUNGI



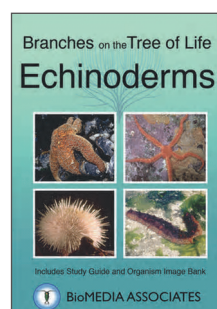
Fungi explores the structure, life cycles, ecology, classification, and evolutionary relationships of four major lines of fungi: Chytrids, Zygomycetes (various molds), Ascomycetes (yeasts, cup fungi, and most lichens), and Basidiomycetes (rusts and mushrooms). Emphasis is on adaptations and reproductive mechanisms.

© 2006 Closed Caption - 21 minutes



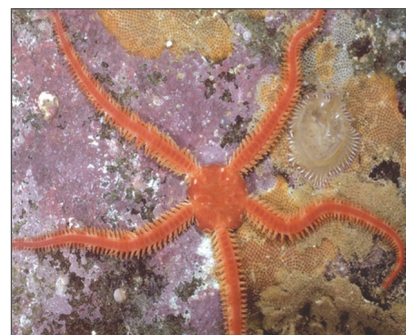
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Cat.# BM-15D - THE BIOLOGY OF ECHINODERMS

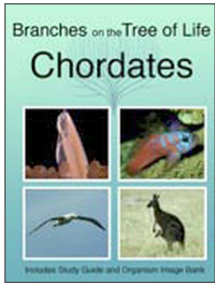


Echinoderms are one branch of the deuterostome line of animal evolution, the branch to which Chordates also belong. Narrated modules cover phylum characteristics and key biological details for five classes: sea stars, brittle stars and basket stars, sea urchins and sand dollars (including developmental stages), sea cucumbers, and crinoids (feather stars).

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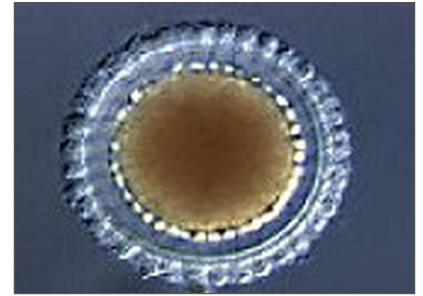


Cat.# BM-19D - THE BIOLOGY OF CHORDATES

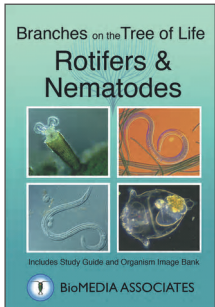


The Phylum Chordata includes tunicates, sea lancelets, hagfish, and all familiar vertebrate animals. This program explores how these seemingly diverse animals evolved and how the group is unified by four characteristic structures: a hollow dorsal nerve chord, a supportive notochord, gill slits, and a post-anal tail. Key milestones in vertebrate evolution included improvements in swimming and feeding, the evolution of paired fins and a primitive lung, movement onto the land, and the amniotic egg.

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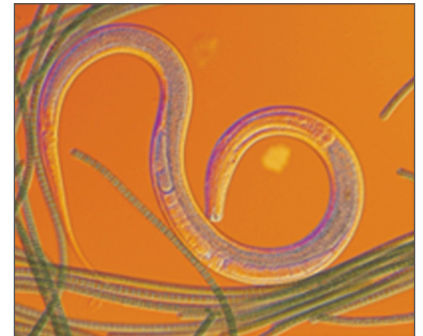


Cat.# BM-11D - THE BIOLOGY OF ROTIFERS AND NEMATODES



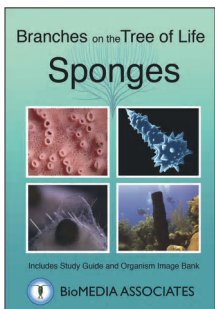
The diversity of rotifers is stunning, and this program shows many different species. Planktonic rotifers have special adaptations for open water life. Nematodes (roundworms) include a number of important human parasites, seldom seen but easily found. Tree moss, leaf litter, and compost piles swarm with nematodes.

© 2007 Closed Caption - 20 minutes



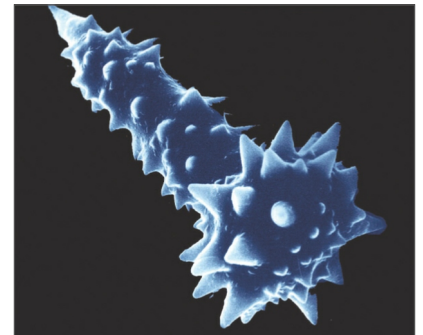
See prices for these DVD titles on [page 23](#)

Cat.# BM-28D - THE BIOLOGY OF SPONGES

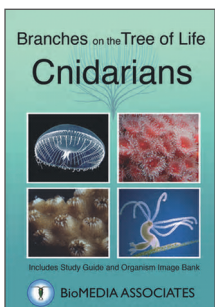


Imagine an animal with no mouth, no digestive system, no excretory or circulatory organs, no brain nor nervous system, and no movement as an adult. In spite of their simple nature, sponges are actually one of the most fascinating animal phyla, when viewed in developmental, ecological, and evolutionary terms. Through animations and timelapse microscopy, this program clarifies the structure, function, classification, and ecological roles of sponges.

© 2005 Closed Caption - 19 minutes



Cat.# BM-9D - THE BIOLOGY OF CNIDARIANS

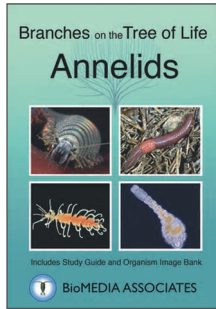


The program begins with a remarkable series of observations on Hydra including: habitat, structure, feeding, nematocyst discharge, locomotion (by looping), and its sexual and asexual reproductive strategies. Obelia illustrates the two-stage life cycle found in many cnidarians. Examining the biology of jellyfish (class Scyphozoa), sea anemones, and corals (class Anthozoa) rounds out our treatment of phylum Cnidaria.

© 2008 Closed Caption - 20 minutes



Cat.# BM-13D - THE BIOLOGY OF ANNELIDS

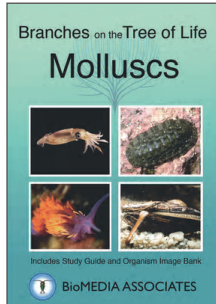


Worms with segmented bodies make up the Phylum Annelida. This program explores the three classes of annelids: Class Polychaeta (feeding, locomotion, and larval stages), Class Oligochaeta (lifestyles, feeding adaptations, and anatomy of freshwater oligochaetes and earth worms), and Class Hirudinea (leeches, crayfish, and worms show adaptations for commensal, parasitic, and scavenger lifestyles). DNA evidence places annelids close to the molluscs on the tree of life.

© 2006 Closed Caption - 15 minutes



Cat.# BM-12D - THE BIOLOGY OF MOLLUSCS



Phylum Mollusca is the second most diverse phylum of animals, with over 100,000 known species. First examined are the basic characteristics of the phylum - a soft body, muscular foot, mantle cavity with gill, and hard calcified shell. The four most familiar classes of molluscs (chitons, gastropods, bivalves, and cephalopods) are studied in depth, viewing structure, life history, adaptations, and ecological interactions.

© 2006 Closed Caption - 15 minutes



Cat.# BM-10D - THE BIOLOGY OF FLATWORMS

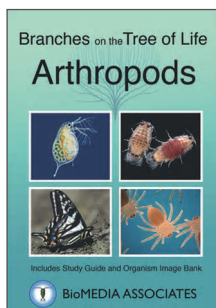


This program shows the structure, behavior, and life cycles of planarians and their free-living relatives (class Turbellaria). It illustrates the bizarre life cycles of flukes (class Trematoda) and tapeworms (class Cestoda) with detailed animations and revealing images of these parasites in action.

© 2007 Closed Caption - 20 minutes



Cat.# BM-14D - THE BIOLOGY OF ARTHROPODS



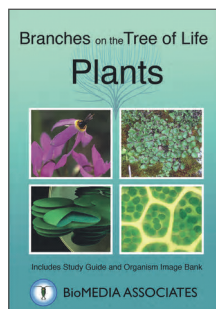
Phylum Arthropoda is the most luxuriant branch on the tree of life. This program covers phylum characteristics and three major arthropod classes: Crustaceans (copepods, waterfleas, branchiopods, decapods, and barnacles), Chelicerates (scorpions, pseudoscorpions, spiders, ticks, and mites), Uniramians (centipedes, millipedes, and insects). In each section the focus is on adaptations, life cycles, and evolutionary relationships.

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Cat.# BM-8D - THE BIOLOGY OF PLANTS

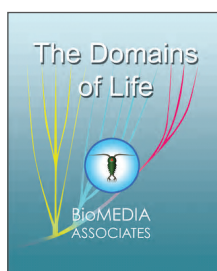


Clear graphic animation is used to describe the molecular-level mechanisms of photosynthesis including light-trapping by chlorophyll, how energized electrons are transported through proteins embedded in the thylakoid membrane, and how their energy fuels reactions that produce ATP and NADPH. Carbon dioxide feed a cycle of reactions that form the simple sugar glucose, a basic cell fuel. Major plant groups are featured in this program including mosses, liverworts, ferns, horsetails, and the seed plants (gymnosperms and flowering plants). Observation section of living plant structures and Image Bank of 200 images of plant phyla, structures, and illustrations.



© 2008 Closed Caption - 18 minutes

Cat.# BM-17D - LIFE'S THREE GREAT BRANCHES ARCHAEA, BACTERIA AND EUCARYA



The Domains of Life updates the five kingdoms classification scheme with the latest understanding of life's organization based on DNA, fossil, and biochemical evidence, reorganizing all life into three great branches: Archaea, Bacteria, and Eucarya. Concise animations and superb microscope footage of primitive cells show events that shaped life as we know it today.

© 2006 Closed Caption - 31 minutes



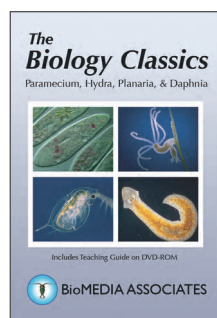
TOPICS:

- Self-Replicating Molecules Evolve
- The Archaeans: Earth's First Inhabitants
- The Rise of Bacteria
- Photosynthesis and Oxygen
- Nucleated Cells Get Their Start
- The Evolution of Mitochondria
- The Domains of Life
- The Eukaryotic Cell Evolves
- Motor Proteins Get Cells Moving
- Mitosis Assures Genetic Continuity
- Plastids Evolve Through Endosymbiosis
- The Red, Brown, and Green Lines
- The Invention of Sex
- The Origins of Multicellular Organisms



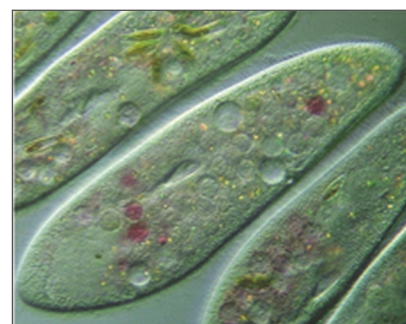
See prices for these DVD titles on [page 23](#)

Cat.# BM-41D - PARAMECIUM, HYDRA, PLANARIA, AND DAPHNIA DVD

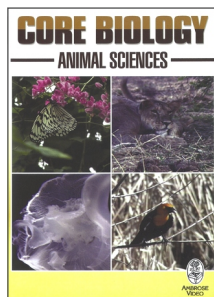


The classics acquaint students with four organisms often studied in biology. This program introduces students to four organisms we call the Biology Classics, which are featured in most biology textbooks. Studying these "classics" broadens our concept of what it means to be alive. Structure, behavior, feeding, reproduction, and ecology are observed in each organism, allowing students to compare them. Detailed study guides that can be printed for student use are provided.

© 2006 Closed Caption - 31 minutes



Cat.# AB-14D - **CORE BIOLOGY: ANIMAL SCIENCES**

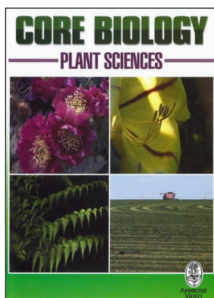


An exciting ride through the world of animal classification, physiology, behavior, and communication. Today the Animal Sciences, Zoology, form the knowledge basis for such diverse disciplines as human physiology and nutrition ... Genetics and animal breeding ... And the exciting field of wildlife ecology. For the first time the scientific discoveries that provide insight into the nature of animal classification, physiology and behavior are brilliantly brought together in one program. Arranged chronologically, each discovery is presented with clear graphics and brilliant High Definition footage.

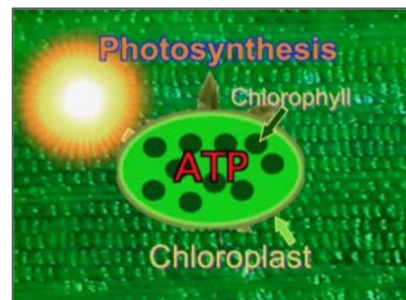


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Cat.# AB-17D - **CORE BIOLOGY: PLANT SCIENCES**



Jared Diamond's central thesis in his best-selling book, Guns, Germs and Steel, is that the fate of human societies has always depended upon their skills as farmers ... This is what the plant sciences have always been about. Plant sciences or botany! No biological science has transformed society more than the successive waves of agricultural revolutions - new ways of growing more food. It started with the domestication of cereal crops - wheat, rice and corn. And in the 20th century, the green revolution has allowed nearly 7 billion people to live on the planet. The story of botany leads from the founding of agriculture and medicinal plants to understanding plant physiology and reproduction to the founding of genetics to finally understanding the miracle of photosynthesis.



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See prices for these DVD titles on [page 23](#)

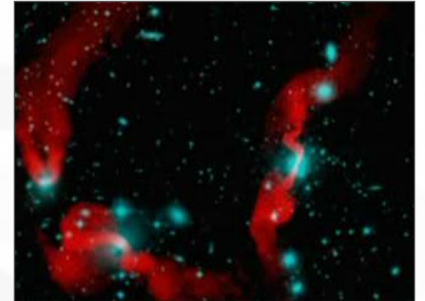
EARTH SCIENCES DVD

Cat.# AB-13D - CORE ASTRONOMY

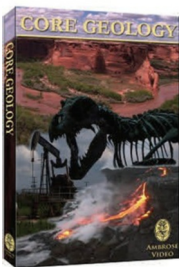


Core Astronomy examines the key points in the development of astronomy, beginning with Greek astronomer Ptolemy's earth centered paradigm to Nicolaus Copernicus' introduction of a sun centered solar system, and Isaac Newton's three laws of motion. It then examines the discovery of Neptune, Einstein's theories of Special and General Relativity, Hubble's expanding universe, and the discoveries of quasars, white dwarfs, neutron stars, pulsars and black holes, and finally ends with astronomy's modern frontiers - the great attractor, dark matter and life existing on an extrasolar planet.

© 2007 Closed Caption - 38 minutes



Cat.# AB-9D - CORE GEOLOGY

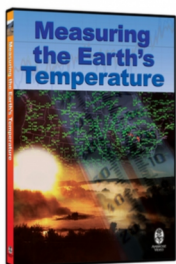


Not since the discovery of gold in 1848 has the understanding of the world's geology been more important to the welfare of the nation. Throughout history the rise and fall of civilizations has been propelled by the abundance and scarcity of valued resources. At no time has this been truer than in the 21st century. Whether it is the search for oil or silicon to make microchips or uranium to run power plants, the search is directed by geologists. In Core Geology, the building blocks of this most contemporary science are laid out in a logical order, including the meaning of the fossil record.

© 2007 Closed Caption - 30 minutes

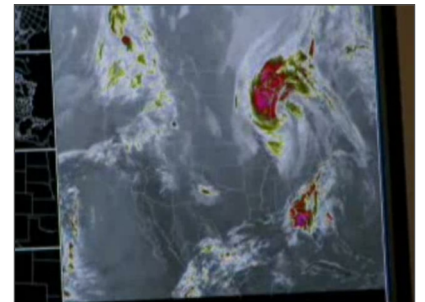


Cat.# AB-1D - MEASURING THE EARTH'S TEMPERATURE

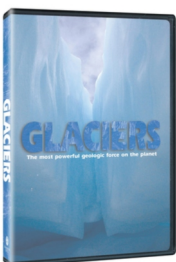


Starting with temperature records collected over 100 years ago, Measuring the Earth's Temperature takes the viewer from the earliest weather stations and balloon launches, to a network of super weather stations constructed in the 21st century.

© 2010 Closed Caption - 29 minutes



Cat.# AB-4D - GLACIERS

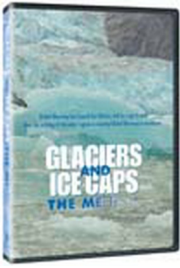


The most powerful geologic force on the planet - glaciers. Glaciers can dominate an entire continent ... Can reshape a continent's surface features in the blink of a geologic eye ... All the spectacular mountain peaks that inspire us have been shaped by glaciers. Includes interviews with leading glacial experts from around the country.

© 2008 Closed Caption - 30 minutes



Cat.# AB-3D - **GLACIERS AND ICE CAPS: THE MELTING**

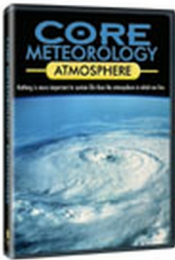


The change from a solid state, snow and ice, to a liquid state, water, makes the Arctic sensitive to climate change and introduces many dangerous positive feedback loops that can drive sudden detrimental climate shifts. Detrimental climate shifts that can affect the whole planet and human civilization. Includes interviews with leading glacial experts from around the country.

© 2008 Closed Caption - 30 minutes



Cat.# AB-5D - **CORE METEOROLOGY: ATMOSPHERE**



This program presents the principles of atmospheric dynamics. The Earth's atmosphere is a dynamic balance of gases and sunlight that allows for the possibility of life. The Earth's atmosphere has a unique composition, structure and life sustaining Bio/Geo/Chemical cycles in its lower reaches. The program also shows how these atmospheric elements are being impacted by the unprecedented burning of fossil fuels.

© 2008 Closed Caption - 30 minutes



Cat.# AB-6D - **CORE METEOROLOGY: CLIMATE**



This program clearly defines what climates are ... Presents the relationships between climates and biomes, and climates and people ... And describes the six major climate types. Lastly, it shows how weather extremes play a major role in each climate type.

© 2008 Closed Caption - 30 minutes



Cat.# AB-7D - **CORE METEOROLOGY: WEATHER**



This program presents the principles of weather dynamics. It shows how weather conditions are measured, How computer models are used to predict the weather and, The special role of moisture in producing weather phenomena ... And finally, the impact of hazardous weather..

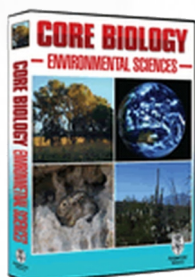
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ENVIRONMENTAL SCIENCES DVD

Cat.# AB-15D - CORE BIOLOGY: ENVIRONMENTAL SCIENCES

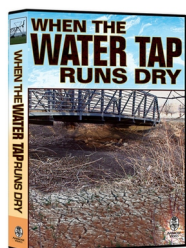


The wonders of ecology and ecosystems revealed. A seminal moment in mankind's history occurred when in 1949 Aldo Leopold announced the concept of a land ethic: "We are all part of the greater interconnected whole of plants animals and microorganisms." Out of this pronouncement was born the new science of environmental studies.

© 2007 Closed Caption - 30 minutes



Cat.# AB-2D - WHEN THE WATER TAP RUNS DRY

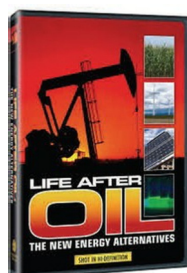


The greatest impacts from climate change will not be warmer temperatures but water shortages. Learn how America's water infrastructure is incapable of handling these changes. There exist solutions that will make us rethink everything from how we use water, to where we live, to who owns water.

© 2009 Closed Caption - 40 minutes

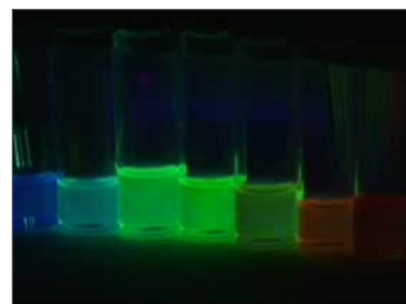


Cat.# AB-8D - LIFE AFTER OIL: THE NEW ENERGY ALTERNATIVES



The six alternative energies that will free us from dependence on foreign oil. The challenge for our future is to make use of alternative sources of energy to replace our dependence on fossil fuels: oil and coal. Right now, such sources are right before us. All we need to do is to scale up what already exists in the laboratory. This program shows how we can do this through technological innovation and will power.

© 2007 Closed Caption - 30 minutes



Cat.# AB-19D - GLOBAL WARMING: SCIENCE AND SOLUTIONS



Our planet is warming; it's significantly warmer in the 21st century than it was in the last third of the 20th century. Indeed, four of the warmest years on record have occurred in this century. This global warming is being forced by the unabated burning of fossil fuels pouring CO2 into the atmosphere ... And this warming appears to be forcing dramatic regional and worldwide climate shifts.

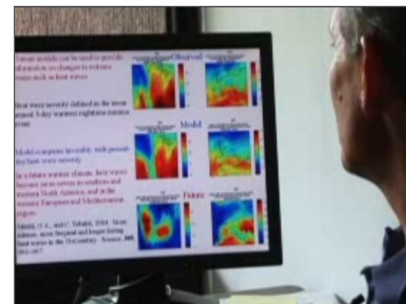
This series takes you through the Science of Global Warming and the Solutions. We need only to trust the science and work together to implement these solutions... solutions we can no longer afford to ignore.

© 2006 Closed Caption - 116 minutes





How much irreversible change to our atmosphere has already occurred? Can we control the devastating effects that the burning fossil fuels will cause? If there is not an immediate global initiative to save the planet, what will the future hold? In the last half of the 20th century, scientists began understanding that industrialization and the effects of explosive population growth were affecting the fundamental structure and composition of earth's atmosphere. Man's ever-increasing thirst for energy, quenched by the burning of fossil fuels, has dramatically increased greenhouse gases in the lower atmosphere. We are now experiencing the first impact of these accumulating gases: A general warming of the planet.



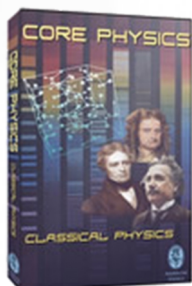
This DVD examines and explains this phenomenon, and looks into the future where other, more deadly impacts are predicted to follow. In the first decade of the 21st century, we find ourselves at the precipice of a dangerous, rising storm.

© 2007 Closed Caption - 114 minutes

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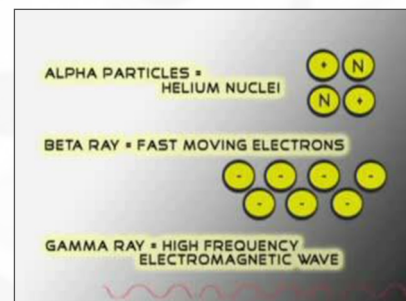
PHYSICAL SCIENCES DVD

Cat.# AB-11D - CORE PHYSICS: CLASSICAL PHYSICS

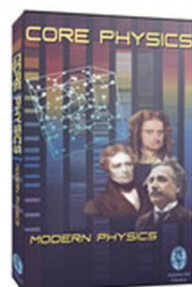


Physics is the study of the elemental constituents of the universe. It deals with matter energy, forces, space and time. In the long history of physics, a series of discoveries and laws laid the foundation for how the universe works. In Core Physics these discoveries and laws are laid out in chronological order, each naturally building on the former. This program covers classical physics... the period which led to the Industrial Revolution and modern technology.

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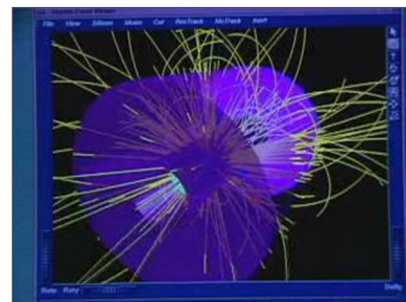


Cat.# AB-12D - CORE PHYSICS: MODERN PHYSICS



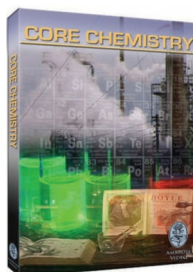
Physics is the study of the elemental constituents of the universe. It deals with matter energy, forces, space and time. In the long history of physics, a series of discoveries and laws laid the foundation for how the universe works. In Core Physics these discoveries and laws are laid out in chronological order, each naturally building on the former. This program covers modern physics ... The period of time which brought us new paradigms of how the universe works and our place in it.

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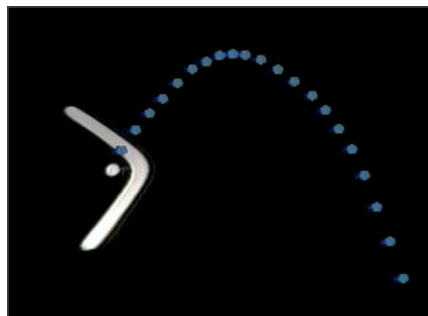
See prices for these DVD titles on [page 23](#)

Cat.# AB-10D - CORE CHEMISTRY



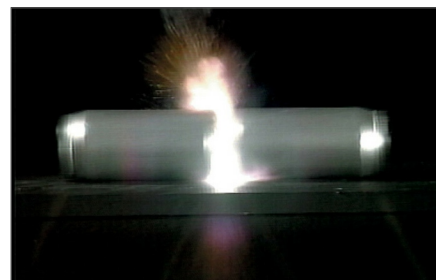
Future problems of energy, food, medicines and materials are the problems of chemistry. No science is more at the core of every technology that supports the seven billion people living on the planet today than chemistry. Chemistry is at the base of the foods, medicines, fuels and materials that are the hallmarks of modern life.

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Contents of Part 1: Uniform and Accelerated Motion: Position-Time Observations (Stroboscopic Photography), **Gravitational Acceleration:** Determination of g (Stroboscopic Photography), **Projectile Motion:** Simultaneous Fall (Stroboscopic Photography), **Projectile Motion:** Monkey and Hunter, **Projectile Motion:** Trajectory of a Projectile (Stroboscopic Photography), **Circular Motion:** Direction of Centripetal Force, **Circular Motion:** Centrifugal Effects on Rotating Sphere, **Circular Motion:** Motion in a Vertical Plane, **Conservation of Energy:** Minimum Critical Velocity on a Vertical Loop, **Work and Conservation of Energy:** Energy Transformations on a Double Incline.

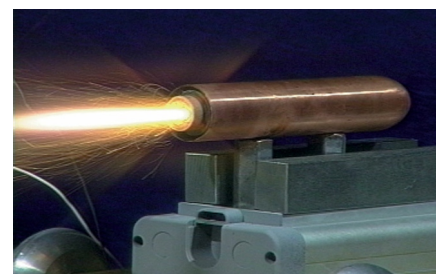
Contents of Part 2: Newton's 1st Law: Rest Inertia of Massive Ball, **Newton's 2nd Law:** Effects of a Varied Net Force on a Body's Motion, **Newton's 3rd Law:** Reaction Cart/Projected Ball Bearings, **Terminal Velocity:** Air Resistance Acting on a Free-Falling Body (Stroboscopic Photography), **Motion of Centre of Mass:** System with Internally Moving Components, **Motion of Centre of Mass:** Projected Boomerang & Tennis Racket (Stroboscopic Photography), **Conservation of Momentum:** Determination of a Bullet's Velocity, **Conservation of Momentum:** Internal Explosion, **Conservation of Angular Momentum:** System of Rotating Spheres, **Free-Fall Paradox:** Falling Chimney, **Centre of Percussion:** Impulsive Forces Delivered to a Baseball Bat.



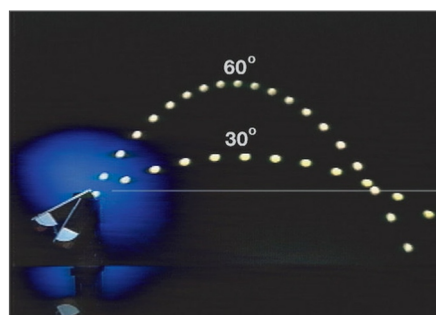
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See available bundles for these DVD titles, and prices on [Page 23](#)

Contents of Part 3: Graphical Analysis of Motion: Car Accelerating on Highway (Computer Animation), **Vector Addition:** Object Travelling on Moving Surface, **Velocity and Acceleration Vectors:** Direction of v and a during Acceleration and Deceleration, **Newton's 1st Law:** Rest Inertia of Bursting Water Balloon; Shattering Flask; and Concrete Block Receiving Sharp Blow (High Speed Film), **Newton's 1st Law:** Motion Inertia of Steel Wedge Splitting Board; Ketchup Cart (High Speed Film), **Frame of Reference:** A Galactic Observer/Relative Motion (Computer Animation), **Frame of Reference:** Inertial and Non-inertial Reference Frames.



Contents of Part 4: Fundamental Forces: Gravitational, Electromagnetic, Strong, and Weak Forces *Computer Animation*, **Mass and Weight:** Weightlessness during Free-fall, **Newton's 2nd Law:** Force and Acceleration of a Rocket Powered Car, **Newton's 3rd Law:** Action-Reaction Forces of a Liquid Nitrogen Cannon, **Newton's 2nd and 3rd Laws:** Helicopter Dynamics, **Force Components:** Perpendicular Force Applied to Tension Cable, **Newton's Law of Universal Gravitation:** Cavendish Experiment *Time Lapse Film*.



Contents of Part 5: Projectile Motion: Ballistics Cart/Horizontal Components of Motion, **Projectile Motion:** Trajectory and Range Analysis, **Circular Motion:** Centripetal Force and Tangential Velocity, **Circular Motion:** Unique Behavior of a Rotating Chain, **Impulse and Momentum:** Egg Impacting Rigid Surface and Water Column, High Speed Film, **Characteristics of Collisions:** Elastic and Inelastic Collisions, **Elastic Collision:** Duration and Magnitude of Impact Forces.

Contents of Part 6: Conservation of Momentum: Strobe Analysis of Two-Dimensional Collisions, **Motion of Center of Mass:** Rigid and Non-Rigid Bodies, **Work and Energy:** Work Performed by Falling Mass High Speed Film, **Work and Energy:** Quantitative Analysis of Bow & Arrow System, **Rotational Dynamics:** Behavior of a Gyroscope, **Physics**

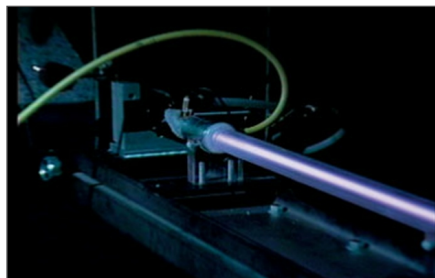
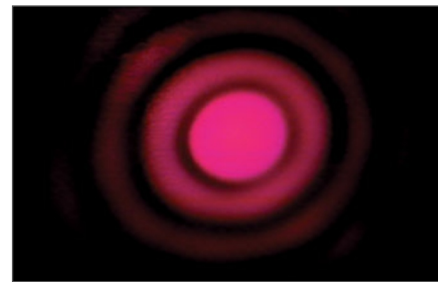
Teasers/ Predict the Outcome: A Collection of Puzzling Physical Events.

© 2010 Closed Caption - 30 minutes each

Cat.# PCI-26D - PHYSICS DEMONSTRATIONS IN LIGHT DVD, Parts 1 and 2

Physics Demonstrations in Light is a two-part video program which presents a full range of demonstrations in the areas of geometrical optics, physical optics, and the nature of light. The program was developed in an effort to give physics teachers a comprehensive collection of video demonstrations, supplementing the instructor's live classroom demonstrations. The program was designed to meet the needs of high school physics classes as well as introductory level college physics classes.

Contents of Part 1: Propagation of Light: Determination of the Speed of Light, **Visible and Infrared Spectrum:** White Light Dispersed on a Spectrum Recorder, **Inverse Square Law:** Light Intensity at Increasing Distances, **Refraction/Total Internal Reflection:** Light Incident on a Water-Air Interface, **Refraction/Schlieren Image:** Variations in the Index of Refraction of Air, **Refraction:** Simulation of Atmospheric Refraction, **Rayleigh Scattering:** Blue Sky and Sunset Simulation, **Laser Theory:** High Power CO₂ Laser.



Contents of Part 2: Interference/Interferometer: Interference of White Light and Laser Light, **Interference/Interferometer:** Determination of the Wavelength of Light, **Diffraction and Interference:** Double-Slit Interference, **Diffraction and Interference:** Single-Slit Diffraction, **Diffraction and Interference:** Microwave Diffraction, **Thin Film Interference:** Newton's Rings/Air Wedge with Monochromatic Light, **Diffraction and Interference:** Diffraction Patterns Produced by Various Objects, **Holography:** The Making of a Hologram.

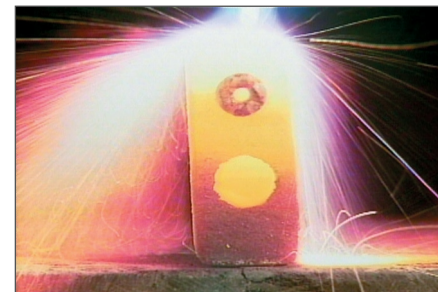
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See available bundles for these DVD titles, and prices on [Page 23](#)

Cat.# PCI-19D - PHYSICS DEMONSTRATIONS IN HEAT DVD, Parts 1, 2 and 3

Physics Demonstrations in Heat is a three-part video program which presents a full range of demonstrations in thermal properties of matter, mechanisms of heat transfer, and thermodynamics.

The program was developed in an effort to give physics teachers a comprehensive collection of video demonstrations, supplementing the instructor's live classroom demonstrations. Instructors will find the program suitable for high school as well as introductory level college Parabolic mirror focuses infrared physics classes.



Contents of Part 1: Thermal Expansion: Changing Volume of a Liquid, **Phase Change Expansion:**, Exploding Ice Bomb, **Thermal Expansion:** Forces Exerted During Expansion and Contraction, **Linear Expansion:** Determination of Expansion Coefficient, **Phase Changes:** Transition from Gaseous to Liquid O₂, **Cryogenics:** Changes in Material Properties, **Cryogenics:** Organic Materials, **Specific Heat:** Determination of C_p.

Contents of Part 2: Thermal Conduction: Propagation in a Metal Rod, **Thermal Conduction:** Comparison of Heat Transfer in Two Materials, **Thermal Convection:** Induced Fluid Flow, **Thermal Convection:** Projection of Convection Currents, **Thermal Radiation:** Focused Transmission Using Parabolic Mirrors, **Thermal Radiation:** Black Body Effects, **Thermal Radiation:** Leslie's Cube, **Heat Transfer:** Boiling Inferno, **Heat Transfer Mechanisms:** A Side by Side Comparison.

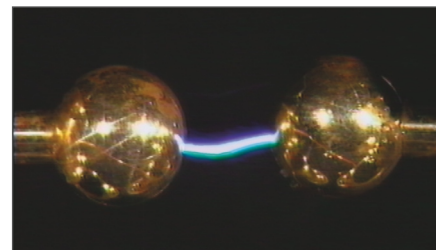


Contents of Part 3: Mechanical Equivalent of Heat: Bullet Fired into a Lead Mass, **Kinetic Model:** Temperature Effects on Gases, **Induced Phase Change:** Liquid to Solid Transition of N₂, **Cryophorous:** Cooling by Evaporation, **Induced Phase Change:** Boiling by Cooling, **Condensation:** Formation of a Cloud, **Pressure and Temperature:** Piston in a Cylinder, **Entropy:** Time Reversal/Mixing of a Dye.

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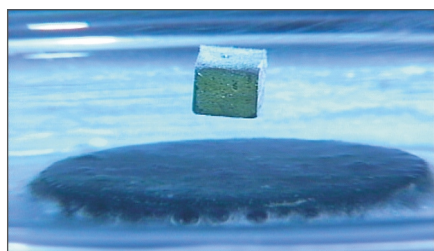
Physics Demonstrations in Electricity & Magnetism is a three-part video program which presents a full range of demonstrations in the areas of electricity and magnetism. The program was developed in an effort to give physics teachers a comprehensive collection of video demonstrations, supplementing the instructor's live classroom demonstrations.

Three-dimensional computer animation is used to augment many of the demonstrations, providing a graphical representation of the physical behavior.



Contents of Part 1: Electrostatics: Interaction of Charge, **Electrostatics:** Distribution of Charge on a Conductor, **Electrostatics:** Induction of Charge, **Isolation of Charges:** Kelvin Water Dropper, **Electrostatics:** Force Exerted between Charges, **Corona Discharge:** Detection of Electric Wind, **Momentum of an Electron:** Momentum Imparted During Collision, **Corona Discharge:** Lightning Model.

Contents of Part 2: Corona Discharge: Electronic Precipitator, **Electric Fields:** Mapping of Force Field, **Electric Fields:** Electromagnetic Shielding, **Electric Fields:** Parallel Plate Capacitor, **Electric Fields:** Energy Stored in a Capacitor, **Electrochemical Effects:** Operation of a Battery, **Temperature and Resistance:** Effect of Temperature Extremes on Conductivity, **Superconductivity:** Zero Resistance and Meissner Effect.

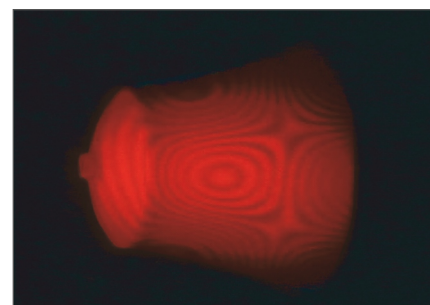


Contents of Part 3: Magnetic Fields: Mapping of Force Field, **Electricity and Magnetism:** Lenz's Law, **Electromagnetic Effects:** Force on an Electron Beam, **Electromagnetic Effects:** Forces on Current Carrying Wire, **Electromagnetic Effects:** Magnetic Forces on Moving Charge, **Electricity and Magnetism:** Induction of Current, **Induction Application:** Voltage Transformer, **Eddy Currents:** Force Acting on a Moving Conductor.

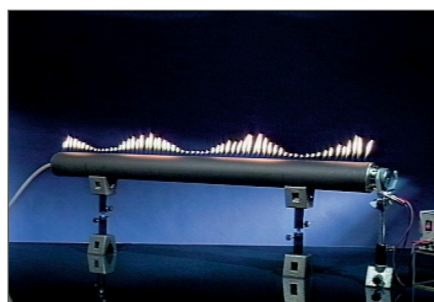
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Physics Demonstrations in Sound & Waves is a three-part video program which presents a full range of demonstrations in the areas of sound, vibrations, and wave behavior. The program was developed in an effort to give physics teachers a comprehensive collection of video demonstrations, supplementing the instructor's live classroom demonstrations. Three-dimensional computer animation is used to augment many of the demonstrations, providing a graphical representation of the physical behavior.



Contents of Part 1: Mechanical Resonance: Forced Vibrations with Single and Coupled Oscillators, **Velocity/Wavelength & Frequency/Reflected Waves:** Transverse Waves on a Coil Spring, **Change in Medium/Interference:** Transverse Waves on a Coil Spring, **Standing Waves:** Vibrational Modes on a String, **Longitudinal Waves:** Propagation/Interference of Longitudinal Waves, **Longitudinal Standing Waves:** Stroboscopic Analysis of Standing Wave Behaviour, **Waves in Two-Dimensions:** Reflection and Refraction of Waves in a Ripple Tank, **Waves in Two-Dimensions:** Interference and Diffraction of Waves in a Ripple Tank.



Contents of Part 2: Nature of Sound Waves: Sources and Propagation of Sound, **Propagation of Sound:** Direct Measurement of the Speed of Sound in Air and Metal, **Transmission of Sound Through a Medium:** Attenuation of Sound in a Vacuum, **Refraction of Sound:** Carbon Dioxide Sound Lens, **Interference of Sound:** Sound Divided into Two Paths of Differing Length, **Interference of Sound:** Beat Phenomena, **Diffraction**

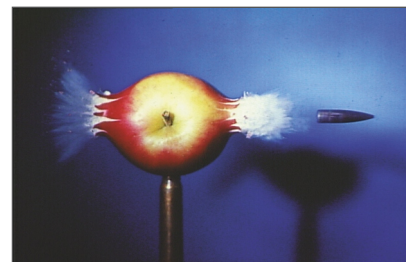
Contents of Part 3: Standing Sound Waves: Resonating Air Column with Cork Dust, **Standing Sound Waves:** Resonance with Illuminating Gas in a Flame Tube, **Standing Sound Waves in Two-Dimensions:** Illuminating Gas in a Resonating Cavity, **Resonance/Real-Time Strobe Holography:** Resonant Modes of a Vibrating Bell, **Vibrations in a Two-Dimensional Surface:** Chladni Plate, **Superposition Principle:**

Fourier Analysis & Synthesis of Complex Musical Tone, **Quality of Sound/Harmonics:** String Vibrations on a Guitar, **Frequency Spectrum of Sound:** Audible and Ultrasonic Waves.

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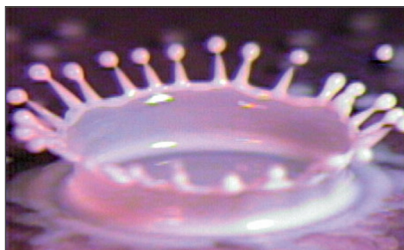
Cat.# PCI-35D - HIDDEN BY TIME: Seeing the Physical World with High-Speed Cameras

In a 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. *Hidden by Time* is a collection of numerous physical events captured with high-speed cameras for classroom study. The program is comprised of high-speed motion events as well as high-speed still images



High-Speed Motion Events (Approximately 30 Minutes)

Imaging of high-speed motion events was accomplished using a recently developed high-speed digital camera operating at 1000 and 2000 frames/sec; shutter speed of 0.04 milliseconds. Contained in the program are over 70 high-speed sequences involving impacts, collisions, and fluid behaviours.



High-Speed Still Images (50 Images)

Included in the collection of high-speed stills are over 20 classic images produced by Dr. Harold Edgerton, distinguished for his pioneering work in high-speed photography. Other high-speed still images were produced by Charles Miller, Massachusetts Institute of Technology; and Loren Winters, North Carolina School of Science and Mathematics.

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Cat.# PCI-34D - THE PHYSICS OF SPACE FLIGHT - Parts 1, 2 and 3

The Physics of Space Flight Series is a three-part video program which presents physics principles as they apply to space flight and space related events. The program's photography was provided entirely by NASA, affording a great deal of spectacular footage accompanying the physics principles being illustrated. Computer animation and the use of graphics also assist in presenting physical concepts. The program was designed for use by high school physics classes and introductory level college physics courses.



Part 1: Acceleration Machines, Launching a Space Vehicle: *Newton's Laws of Motion, Kinematics, Conservation of Energy & Momentum, Power, Aerodynamic Effects.* This program details the physics involved in launching a space vehicle. The Space Shuttle and Saturn V launches are dynamically examined in terms of the vehicle's thrust, changing weight, net force, acceleration, and velocity throughout the initial stages of ascent and injection into orbit. The dynamics of launching a rocket from the earth's surface is contrasted to the lift-off of the Lunar Module from the surface of the moon. The rocket engine principle is discussed in terms of Newton's Third Law of Motion. Newton's Second Law of Motion, expressed in terms of momentum, is used to find the magnitude of thrust produced by a single Space Shuttle main engine. Launch trajectories and the effect of the earth's rotation on launching a rocket into orbit are also explained.

Part 2: Physics in Space Orbital Motion & Re-entry: *Newton's Laws of Motion, Circular Motion, Rotational Dynamics, Heat, Conservation of Energy.* This program focuses on the physics of orbital motion and re-entry into the earth's atmosphere. The program discusses the dynamics of orbital motion and the apparent weightlessness experienced while in orbit. Kepler's 3 laws of planetary motion are applied to satellites, explaining the characteristics of both circular and elliptical orbits. Orbital motion of the Space Shuttle is studied in terms of the acting gravitational centripetal force, orbital radius, and orbital velocity. Satellite deployment from the Space Shuttle and subsequent attainment of geosynchronous orbit is also examined. The weightless environment provides a unique opportunity for motion studies in which Newton's Three Laws of Motion become particularly apparent. Heat transfer in the vacuum of space and a discussion on thermal energy concludes the program as the atmospheric re-entry of the Space Shuttle is contrasted to that of the Command Module.

Part 3: Gravity: A Broadened View: *Newton's Law of Universal Gravitation, Gravitational Acceleration, Newton's Laws of Motion, Fluid Mechanics.* This program centers on presenting a broadened perspective of gravity, with emphasis given to observing its influence in different environments. Newton's Law of Universal Gravitation is used to determine the magnitude of the earth's gravitational force at increasingly distant locations from its center; computer graphics are used to simulate pulling away from the earth with the inverse square curve graphically being developed. The microgravity environment is examined in terms of its effect on various physical properties and the unique mechanics it presents to orbiting space structures. Gravitational acceleration on the surface of the moon is contrasted to that of earth by observing experiments and events which took place during the moon walks of the Apollo Program. Finally, an examination of the Gravity Assist Principle, or "Slingshot Effect", provides an intriguing example of utilizing gravitational forces to greatly accelerate spacecraft on their journey to the outer solar system.



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