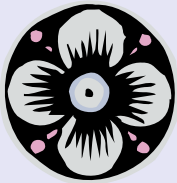


Biology



- . **Classification**
- . **Cells**
- . **Homeostasis**



Classification of Living Things I: Monera, Protista & Fungi

Our planet is populated by an amazing array of living organisms, from microscopic bacteria to complex plants and animals. These two videos introduce the systems of classification used by scientists in studying the differences and similarities among living things. The history of taxonomy is discussed, from the work of Linnaeus through the development of the five-kingdom system, including emerging theories in classification. The kingdoms are described by their defining characteristics, with exceptional close-up examples of members of each kingdom. Live footage is supplemented by microscopic images, diagrams, key terms and concepts. Interviews with science professionals provide insight into the rationale behind classification and the ongoing attempt to understand the unique characteristics of living things. These valuable classroom resources emphasize important biological concepts, such as diversity and interdependence. A supplement is included.

CAM 65150 (VHS) \$70.00

Classification of Living Things II: Animalia & Plantae

Our planet is populated by an amazing array of living organisms, from microscopic bacteria to complex plants and animals. These two videos introduce the systems of classification used by scientists in studying the differences and similarities among living things. The history of taxonomy is discussed, from the work of Linnaeus through the development of the five-kingdom system, including emerging theories in classification. The kingdoms are described by their defining characteristics, with exceptional close-up examples of members of each kingdom. Live footage is supplemented by microscopic images, diagrams, key terms and concepts. Interviews with science professionals provide insight into the rationale behind classification and the ongoing attempt to understand the unique characteristics of living things. These valuable classroom resources emphasize important biological concepts, such as diversity and interdependence. A supplement is included.

CAM65151 (VHS) \$70.00



A Multi-State Curriculum Consortium

Basic Animal & Human Body Systems

Take a visual, introductory journey through nine organ systems: the digestive, circulatory, respiratory, skeletal, muscular, nervous, endocrine, integumentary and immune systems. Using a variety of special effects, endoscopic video of organs inside the living organism, three-dimensional graphics and specimens of dissected organs, experts in the field of human anatomy, animal science, muscle biology and comparative anatomy use more than a century of experience to give a basic, yet thorough, understanding of what makes higher-level organisms tick. This program offers a comparative view of organ system elements of different animal species and classes, including fish, poultry, cattle, sheep, goats, pigs and humans, offering a wider perspective and a more thorough understanding of the structures and functions within these systems. 270 min, 9 sections, 14 printable resources and 31 web resources.

CEV80004 (DVD) \$315.00

Inside the Cell

Inside the Cell graphically illustrates cellular organization, ultra-structure of organelles and the physiological processes they are responsible for. This updated version of a previously existing product has been modified to remain current with recent advances in cell biology. The cellular experience features engineered cut-aways of the more complex organelles, detailed models of plant and animal cells, animated special effects and electron micrographs. Imagine your students flying through the plasma membrane bi-layer and taking a fully animated tour of this often-misunderstood organelle. Bring the mitochondria to life by peeling back the outer membrane and visualizing the cristae as never seen before. Improved graphics, including fully rendered 3-D environments and the addition of recent advancements in cellular biology, make this one of our most visually pleasing and informative products. CYB27028 (CD-ROM) \$120.00

Basic Cell Growth, Division, & Genetics

Look at the genetic, biochemical and environmental processes responsible for the differences and similarities among the same species and examine the history and basic rules of genetic studies. Then, explain chromosomes, mitosis, meiosis, sex determination, genes, DNA and RNA. Material is presented in an innovative, interactive format designed to enhance learning by combining discussion and evaluation into the subject matter. A supplement is included.

CEV10223 (VHS) \$99.00

Cellular Respiration

Students gain insight into the vital biological process of converting food into a source of energy, which can be used by the cell. Eye-catching animations and special effects depict important processes taking place during cellular respiration. The programs' flexible "replay" feature allows students to review involved concepts, such as the electron transport chain, until they fully comprehend the material.

CYB27011 (CD-ROM) \$140.00

Maintaining Equilibrium

Explore the concepts of equilibrium and homeostasis in living systems. Students examine diffusion, osmosis and tonicity at the cellular level, perform a diffusion experiment in gelatin and investigate semipermeable membranes with different solutions in dialysis tubing. The exchange of energy and matter in open systems is illustrated by the physiological responses of people in physical training, by the complexity of a greenhouse ecosystem filtering waste water and through contributions of technology, such as hemodialysis. A supplement is included.

UNL42015 (VHS) \$69.00



A Multi-State Curriculum Consortium

Homeostasis

In order to understand homeostasis in a natural setting, this program observes what happens to the body during a marathon race. By monitoring the various physiological responses of one of the runners, learn the many changes and adjustments being made in the body as the race progresses. The data obtained from the runner are used to explain, in detail, how the body regulates temperature, blood oxygen, blood glucose, water balance, heart rate, breathing rate and hormone levels. A supplement is included. FLM69001 (VHS) \$100.00

Biochemistry: The Chemistry of Living Things

Explore atoms, elements, molecules and the chemical compounds of life with Biochemistry. The colorful molecular models utilize special effects to achieve a feeling of movement and transformation as the various chemical bonds and compounds are covered. Challenging tutorials provide plenty of practice identifying chemical formulas to their corresponding structural formula, labeling amino acids and more. CYB27019 (CD-ROM) \$140.00

Human Genome

It is a project of enormous magnitude—mapping the human genome. Learn how what began with the discovery of DNA has led to the understanding of which human genes are responsible for specific human traits, including growth, development, health and even personality. A supplement is included. DSC62001 (VHS) \$50.00

Introduction to Biotechnology

Biotechnology is one of the fastest growing and most exciting fields in science. Scientists in plant, animal and human medical services discuss examples of cloning and transgenics—the removal and transplantation of genes into other organisms. Explore human tissue and organ replacement, nutrition augmentation in foods, pest and drought resistance for plants, disease treatment and many other possibilities of biotechnology. Students will appreciate the computer-generated imagery and video microscopy, which clearly explains the potentially difficult and abstract concepts of the cell, the nucleus, chromosomes, DNA, genes, mitosis and meiosis. A supplement is included. Collaborators: John Blanton, Jr., Ph.D., Texas Tech University; Randy Allen, Ph.D., Texas Tech University; John Morrow, Jr., Ph.D., Texas Tech University; Ellen B. Peffley, Ph.D., Texas Tech University. 31 min. CEV00747 (VHS/DVD) \$150.00

Miracle of Life

This Emmy Award-winning Nova classic uses microscopic photography to trace the development of a baby from mere cells to human form. Students watch the amazing growth process in vibrant full color and learn about each phase in detail. An enlightening and fascinating masterpiece. WGB71001 (DVD) \$39.00

Viruses & Bacteria

This program draws the student into the fascinating microscopic world of viruses and bacteria. Vivid diagrams and animations—along with electron photomicrographs, photographs and narratives—are used to cover viruses and bacteria in a comprehensive manner. CYB27021 (CD-ROM) \$130.00

Fungi

Fungi and their contributions to the nutrient cycle are vital to life on our planet. Eye-catching graphics and stimulating narratives explain how members of the Fungi kingdom are divided, show representative organisms from each phyla, explore typical fungal structures and offer interesting insight to the uses and contributions made by fungi. Animated sequences vividly depict extracellular digestion, asexual reproduction, sexual reproduction by the process of conjugation and more. CYB27023 (CD-ROM) \$130.00