

LOCATION / TOPIC

TITLE & DESCRIPTION

Ecology / Biomes /
Environment

ACEER Useful Plant Trail Video Guide, The (28:00) ★ ★ ★

Discover the Useful Plant Trail of the Amazon Center for Environmental Education and Research (ACEER) with your guide, Shaman Don Antonio Montero, vetted by Dr. James Duke, internationally recognized ethnobotanist. On the trail you will see 45 trees and plants, not only useful to the people of Amazonia, but some that provide chemicals or products used in countries around the world. © 2002 Environmental Media

Ecology / Biomes /
Environment

Amazonia: Exploiting the Forest (19:06) ★

This programme examines unsustainable exploitation of the rainforest. Since 1950 logging, mining and, above all, ranching have destroyed vast areas of forest. At the same time the government has encouraged farmers to move into Amazonia. This programme looks at the impact of these developments. © 1991 Channel 4

Ecology / Biomes /
Environment

Amazonia: How the Forest Works (19:11) ★ ★ ★ ★

The oldest, the richest and most varied ecosystem on earth -- how does the rainforest work and why is recovery so slow if it is damaged? © 1991 Channel 4

Ecology / Biomes /
Environment

Amazonia: Living in the Forest (19:31) No ratings yet

This programme looks at the sustainable development of the rainforest and focuses on three different ways of life in the forest, none of which causes lasting damage—the Tikuna Indians and the Caboclos (early Portuguese settlers) who practise different forms of slash and burn agriculture in the Terra Firme forest, and the Caboclos living on the Varzea (floodplain forest). © 1991 Channel 4

Ecology / Biomes /
Environment

Amazonia: The City in the Forest (19:22) No ratings yet

Manaus is a city with a population of one and a half million situated in the centre of one of the most sparsely populated areas on earth! Why has Manaus grown up where it has and why has it become so big? How does it relate to the surrounding forest and what has been its impact on that forest? © 1991 Channel 4

Ecology / Biomes /
Environment

Amazonia: The Forest: A Global Challenge (19:31) ★ ★ ★ ★

Brazil has a rapidly growing population and a large overseas debt; the development of the resources of the rainforest is one way of addressing these problems. Development has to continue but what will the consequences be if clearing continues at present rates? Can existing forms of development be made sustainable? © 1991 Channel 4

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Biologix : Succession and Climax Communities (29:07) ★ ★

Discusses successional events and their causes in a microenvironment within a particular community. Analyzes data on population and community change and examines the impact of human activity on various ecosystems. Presents some new ideas on the concept of succession. © 1997 United Learning

Ecology / Biomes /
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Champions of the Land (26:00) ★ ★ ★

This fascinating profile of the American Conservation Movement reveals the historical roots of today's conservation efforts, which promote the inherent value of nature as more than just a disposable human resource. Conservationists profiled include John Muir, Aldo Leopold, Bob Marshall, Rosalie Edge, and Rachel Carson. © 1997 Discovery Channel School

Ecology / Biomes /
Environment

Coral Reefs: Rainforests of the Sea (19:00) ★ ★

Like the rainforests of the land, coral reefs are ancient, large, serve as host an astonishing variety of life, and constitute an ecosystem all their own. The video discusses the food chain within a coral reef, the very specific conditions necessary for their growth, and how they affect both marine and human life. Like their counterparts on land, these rainforests of the sea are seriously endangered by human activity. Viewers are encouraged to make healthy environmental choices that help preserve the all-important balance of nature. © 2004 AIMS Multimedia

Ecology / Biomes /
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Global Ocean Realm, The (20:00) ★ ★

The Global Ocean Realm explores in depth many of the complex and dynamic oceanic events that occur around the world. Topics include the volcanic mid-oceanic ridge system, seamounts, volcanic islands, deep-sea trenches, the continental shelf, turbidity currents, ocean currents, coastal wave action, barrier islands, tidal patterns, coral reefs, and the abyssal plains. © 2002 United Learning

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Ecosphere : Where All Life Exists (24:32) ★ ★ ★

This view of the ecosphere focuses on three main concepts: the mutual interdependence of all living things, the dynamic nature of the ecosphere, and how the earth has been altered by living things. Viewers will learn about where life exists on Earth, the first living things to appear on Earth, why the development of photosynthetic organisms are critical to life on Earth, why the ozone layer of our atmosphere is so important, the nitrogen cycle, eutrophication, and the Greenhouse Effect. © 1992 United Learning

Ecology / Biomes /
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Elements of Biology : Biomes : The Adaptations of Organisms (56:00) ★ ★ ★

Biomes are zones created by physical geographic and climatic conditions in different areas of the earth. Organisms thrive or perish within biomes depending on their ability to adapt. This program will describe the major world biomes and explain how some organisms adapt to the environment within the biomes. Mention will be made of how humans have changed the ecosystem in some biomes. © 2006 United Learning

Ecology / Biomes /
Environment

Elements of Biology : Ecosystem : Organisms and Their Environment (56:00) ★ ★ ★

Plants and animals compete and cooperate in their environment resulting in what is often described as a "Balance of Nature" within an ecosystem. © 2006 United Learning

Ecology / Biomes /
Environment

Elements of Biology : Matter and Energy : Organization in Living Systems (56:00) ★ ★ ★ ★

Matter and energy are organized in living systems in such a way that they help the organism adapt to its environment. © 2006 United Learning

Ecology / Biomes /
Environment

Energy and the Chemistry of Life (39:48) ★ ★ ★

This two-part program explains the basic physical and chemical processes that allow energy to be stored and utilized by living things. The physical concepts of matter and energy are explained and the structure of atoms are described. Students learn how sub-atomic particles aggregate to form elements and then combine to form molecules and chemical compounds. Finally, some of the most important compounds essential to living organisms are discussed. The second part utilizes the physical and chemical concepts to analyze two metabolic processes: aerobic cellular respiration and photosynthesis. © 1996 United Learning

Ecology / Biomes /
Environment

Legacy of an Oil Spill (28:46) ★ ★ ★ ★

In 1989 the super tanker Exxon Valdez spilled over 11 million gallons of crude oil into Alaska's Prince William Sound damaging over 1,000 miles of wilderness shoreline. More than a decade later, only two of 28 species injured by this environmental catastrophe have recovered. Some species are fighting their way back while others are still in decline. This video allows viewers to join scientists in the field on an ecosystem research project to determine the long-term effects of the spill on several species of fish, birds and marine mammals. They learn about the challenges many injured species face in a rapidly changing marine environment. "Legacy of an Oil Spill" provides students with a scientific perspective on the long-term effects of the nation's worst oil spill on the wildlife and habitats of Prince William Sound. © 2000 AIMS Multimedia

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NetFiles #107: Science/Environment Applications (26:00) No Ratings Yet

In this program, you will visit two Net Classrooms where students are combining Internet research, scientific data, and hands-on water testing to help the environment. Net Safety segment discusses the newest versions of filtering software available for schools. Susan Walton from Peasley Middle School in Gloucester, working with Dr. Moe Lynch from the Virginia Institute of Marine Science, has developed a problem-based activity on fish kill. Jenny Sue Flannagan and Deb Rollins from Kemp's Landing Magnet School have students conduct water quality tests and place the data on a web site for others to research. © 1998 United Learning

Ecology / Biomes /
Environment

On the Gulf : Coastlines in Danger (56:09) ★ ★ ★ ★

In the aftermath of Hurricane Katrina, this program takes a look at the challenges that scientists, environmentalists, and engineers face with Gulf Coast weather phenomena. © 2006 Discovery Channel School

Ecology / Biomes /
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Simply Science: Combustion and Replacement Reactions (27:13) ★ ★ ★

Compares combustion reactions to respiration, explores solubility, explains polyatomic ions and multi-valent metals, and investigates single and double replacement reactions. Interviews with water treatment experts explain how sewage treatment plants use chemicals and bacteria, and show how bacteria is used to help clean up spills and remediate contaminated soil. © 1998 United Learning

Ecology / Biomes /
Environment

Simply Science: Conditions for Life (27:04) ★ ★ ★ ★

Students investigate the science behind the search for extraterrestrial life. Using information presented throughout the series, they discuss the possibility of life on other worlds in the solar system. This leads to an investigation of the effects living things have on their environment and specifically the modern concern of the Greenhouse Effect. The underlying theme is the universality of scientific knowledge and its ability to lead us to reasonable hypotheses. © 1998 United Learning

Ecology / Biomes /
Environment

Simply Science: Solar Energy in the Biosphere (27:04) ★ ★

The Earth is compared to a spaceship that travels through space carrying everything needed for survival. Students see the effects of light energy on matter and find evidence that light causes chemical reactions in plants. This leads to a discussion of the importance of solar energy in sustaining life and driving weather systems on our planet. © 1998 United Learning

Ecology / Biomes /
Environment

Simply Science: Systems, Energy, and Matter (27:08) ★ ★ ★ ★ ★

Examines how living organisms, as open systems, exchange energy and matter with their environment. Students observe the absorption, transportation and waste removal of water, mineral and gases in plants and animals. Pesticides are studied explaining how they are helpful in plants, but may be inadvertently amplified in animals higher up the food chain. © 1998 United Learning

Ecology / Biomes /

Simply Science: Water: Highway of Life (27:05) ★ ★ ★

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The ability of water to dissolve substances makes it the primary system of transport in living organisms. Using graphics, this program examines the formation of molecular and ionic compounds, and explores the efficiency of water in dissolving these compounds. The process of diffusion is described and a lab is performed to show the rate of diffusion in gelatin. A visit to a water treatment plant shows how water's efficiency as a solvent affects the water treatment process. © 1998 United Learning

Ecology / Biomes / Environment

Simply Science: Water's Physical Properties (27:04) ★ ★ ★ ★

Ice fishing is the setting for this review of the physical properties of water. A lab is performed to graph the effects of adding energy to frozen and liquid water, and the amount of energy required to raise the temperatures of ice and water by certain amounts is calculated. The natural setting and the lab are integrated to emphasize the high specific heat capacity of water, and the importance of water in moderating the Earth's climate. © 1998 United Learning

Ecology / Biomes / Environment

Simply Science: Weather Systems (27:05) ★ ★ ★

Looking at weather from a global perspective illustrates the forces which determine major weather patterns. Students conduct an experiment to demonstrate the uneven heating of Earth and learn about the meeting of high and low pressure systems. A meteorologist at a weather forecasting center explains how data is collected for weather forecasts, and how storm activity can be predicted. © 1998 United Learning

Ecology / Biomes / Environment

TEAMS : Ecosystems : Observing Your Environment (30:17) No Ratings Yet

Students make observations of the environment around them and use classroom maps to record their observations. Throughout the video, viewers are given breaks to practice what they have just seen in their own classroom. © 0 Los Angeles County Office of Education

Ecology / Biomes / Environment

Underwater Forensics (56:00) ★ ★ ★ ★

For countless centuries, the sea has enticed mankind to travel and explore—always at risk of disaster from the ocean's tumultuous power and basic inhospitability to human life. In segments that cover two famous shipwrecks and a phenomenon that endangers deep-sea divers, students examine the skills and techniques that modern investigators use to solve maritime mysteries and avoid future accidents. This program includes two feature segment and two short segments. © 2004 Discovery Channel School

Ecology / Biomes / Environment

Water Through the Ecosystem (27:05) ★ ★ ★

The video examines how water affects vegetation and climate in different areas of the world. © 1998 United Learning

Ecology / Biomes / Environment

Web of Life : Producer to Predator (23:52) ★ ★ ★ ★

As versatile media support for Biology, Life Science and Ecology units on ecosystems, this program explores the processes and relationships that occur in all ecosystems: the flow of energy, the cycling of water and nutrients, food chains, and the producer-consumer-decomposer cycle. It also looks at examples of how modern society has affected the balance of life in different ecosystems. © 1996 AIMS Multimedia

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World's Biomes : Desert to Rainforest (30:00) ★ ★ ★

This program provides versatile media support for Biology, Life Science, Ecology, Earth Science, and Geography units on biomes. Students' knowledge is reinforced regarding the various physical factors that determine the climate of a biome, and, in turn, the density of life within a given biome. This informative program highlights the adaptations that different organisms make to their environment. © 1996 AIMS Multimedia