

HSAED – ENVIRONMENTAL STUDIES AND GEOGRAPHY

ENVIRONMENTAL STUDIES

ETHICS AND ENVIRONMENT: REUSE MOVEMENT – HSENV001 **R2 000.00**

ETHICS AND ENVIRONMENT: POWER OF GREEN – HSENV002 **R2 000.00**

OCEANS OF PLASTIC – HSENV003 **R2 000.00**

SUSTAINABLE DEVELOPMENT – HSENV004 **R2 000.00**

HUMAN IMPACT ON BIOSPHERE – HSENV005 **R2 000.00**

GLACIERS AND ICE CAPS: MELTING – HSENV006 **R2 000.00**

Global Warming: Experts Speak **R2 000.00**

This program examines the science and uncertainties behind current global warming debates. It features commentary from such experts as Richard Lindzen, Reid Bryson, Howard Odum, and Thomas Lovejoy.

DVD / 2005 / 36 min / HSENV007

Global Warming: What's Truth and What's Propaganda **R2 000.00**

In this DVD, Stephen Schneider, a climatologist and professor of environmental biology at Stanford University, explains how to determine what is truth and what is propaganda in the growing debate surrounding global warming.

DVD / 2004 / 30 min / HSENV008

Environmental Issues and Human Impact **R2 000.00**

This program examines urgent environmental concerns facing the earth and considers what can be done to repair the damage humans have caused. It covers such topics as air and water pollution; deforestation and loss of wetlands; ozone depletion and global warming; and the negative impacts of agriculture, construction, and tourism.

DVD / 2006 / 22 min / HSENV009

Environmental Ethics **R2 000.00**

This program looks at ethical issues regarding the environment and land use. It discusses common land use conflicts and explores the biological and economic impacts of a variety of land use strategies. *DVD / 2005 / 65 min / HSENV010*

Ecosystems on Earth **R2 000.00**

This DVD provides an overview of environmental problems facing the earth's ecosystems. It also discusses measures that have been implemented to save endangered species, avert global warming, and preserve and restore health to all ecosystems. *DVD / 2001 / 21 min / HSENV011*

Ecosystem Cycles **R2 000.00**

This program examines such basic ecosystem concepts as food chains and chemical cycles and discusses endangered species and global warming. It also considers modern ecological problems.

DVD / 2002 / 61 min / HSENV012

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GEOGRAPHY AND CLIMATE

ATMOSPHERE CLIMATE AND WEATHER – HSENV013

R2 000.00

Geomorphology: Study of the Shape of the Earth

R2 000.00

This program introduces and explores the forces that have shaped the earth, including wind, water, glaciers, volcanoes, temperature changes, gravity, and faulting. It also examines a variety of landforms. **DVD / 2005 / 20 min / HSENV014**

When the Water Tap Runs Dry

R2 000.00

This DVD examines such impacts of climate change as severe weather, fires, water shortages, heat waves, rising sea levels, and the destruction of ecosystems and explores the potential future economic challenges associated with these changes. It also introduces the science of climate change economics.

DVD / 2009 / 40 min / HSENV015

Resources, Populations, and Climate Change

R2 000.00

This DVD presents a contrarian view of natural resource depletion, population growth, and climate change. It argues that none of these problems are the most serious issues facing the world in the 21st century. The program emphasizes that climate change can be addressed without losing the benefits of free markets and economic growth. **DVD / 2009 / 44 min / HSENV016**

Life in Mesozoic Times

R2 000.00

This DVD explores the major life forms of the Mesozoic Era, which spanned from 245 million years ago to 65 million years ago. It discusses Pangaea, prehistoric temperatures, ocean life, plant forms, and the event that caused the extinction of the dinosaurs. *DVD / 2005 / 20 min / HSENV017*

PHYSICAL GEOLOGY AND OCEANOGRAPHY

A Brief History of Earth Science

R2 000.0

This DVD traces the history of the field of earth science in the 19th and 20th centuries. It discusses such topics as ice ages and plate tectonics. *DVD / 2004 / 17 min / HSENV018*

The Geology of Southern Africa

R2 000.00

This DVD introduces the principal tectonic units and geologic developments of the southern third of Africa, starting with the oldest known rocks. It explores the Barberton Mountainland, Witwatersrand, Transvaal and the Great Karroo Basins, the Limpopo Mobile Belt, the Great Dike of Zimbabwe, and the Bushveld Igneous Complex.

DVD / 1982 / 32 min / HSENV019

Running Water: How It Erodes and Deposits

R2 000.00

This DVD shows how running water changes the surface of the earth. It covers such topics as suspension, solution, load, rapids, potholes, meanders, braided streams, deltas, alluvial fans, waterfalls, and floodplains. The program also discusses characteristics of youthful, mature, and old streams.

DVD / 2003 / 41 min / HSENV020

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Metamorphic Rocks**R2 000.00**

This program explores forms of metamorphic rock. It explains that metamorphic rocks are formed by pressure, heat, or a combination of both. *DVD / 2004 / 21 min / HSENV021*

Igneous Rocks**R2 000.00**

This DVD looks at rocks that were formed deep in the earth's crust by the processes of melting and recrystallization. It examines volcanic rocks; igneous rocks found in dikes and sills; and such plutonic rocks as granite, syenite, gabbro, and ultramafic rock. *DVD / 2004 / 18 min / HSENV022*

The Formation of Sedimentary Rock**R2 000.00**

This DVD shows how weathering creates rock sediment that eventually resettles and hardens into a variety of clastic and non-clastic rocks. It examines such sedimentary rock types as sandstone, limestone, siltstone, mudstone, shale, dolomite, and coquina and looks at conglomerates of various sedimentary rocks. *DVD / 1989 / 19 min / HSENV023*

Rock Cycle**R2 000.00**

This program shows how minerals, given the correct amount of time and proper circumstances, form solid deposits known as rocks. It describes the forces that affect rock formation; introduces igneous, sedimentary, and metamorphic rock classifications; and teaches how to identify the different types of rocks. *DVD / 2003 / 30 min / HSENV024*

Plate Tectonics**R2 000.00**

Explaining that the earth's geography is constantly evolving and creating new landscapes, this program examines plate tectonics. *DVD / 2007 / 15 min / HSENV025*

Plate Tectonics, Earthquakes, Volcanoes, and Mountains**R2 000.00**

This DVD examines continental and oceanic plates and shows how their separations and collisions create mountains, islands, volcanoes, and earthquakes. *DVD / 1998 / 15 min / HSENV026*

Plate Tectonics: This Dynamic Earth**R2 000.00**

This program provides a comprehensive overview of plate tectonics, continental drift, and seafloor spreading. It defines plate tectonics; traces the development of plate tectonics theory; considers the forces behind tectonic activity; and discusses divergent, convergent, and transform boundaries. *DVD / 2009 / 70 min / HSENV027*

Movement in the Earth's Crust**R2 000.00**

Explaining that the crust of the earth is constantly subjected to stresses that cause deformation in the forms of cracks, folded or bent rock, fractures, and faults, this program explains what occurs below the earth's surface in the crust and mantle. It looks at the many types of faults and considers why and how they occur. The DVD offers illustrative diagrams and computer animations. *DVD / 2005 / 14 min / HSENV028*

Destruction of the Earth's Crust**R2 000.00**

Featuring diagrams and computer animations, this program explores the many physical forces that have been at work to wear down the surface of the earth since its formation 4.5 billion years ago. The DVD illustrates the complex processes of weathering and considers the results of the many forces that break down rocks. *DVD / 2006 / 18 min / HSENV029*

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Earthquakes

R2 000.00

Featuring scenes that highlight the effects of earthquakes, this program probes the origin and nature of seismic waves. It examines P and S waves, epicenters, transcurrent faults, and transform faults and explores the San Andreas fault and subduction zone earthquakes. Excellent, Video Rating Guide.

DVD / 1990 / 15 min / HSENV030

Seafloor Spreading

R2 000.00

This DVD examines the seafloor spreading theory and addresses its displacement of the permanence theory. The program reviews the roles of magnetic anomalies, paleomagnetism, sediment studies, and heat flow in verifying seafloor spreading.

DVD / 2004 / 11 min / HSENV031

FORESTRY

INTRODUCTION TO FOREST MANAGEMENT

R2 000.00

Item Number: HSAGRI036 **Duration:** 45 min - DVD

The first record of forest management can be traced back to early China by the landowning upper-class, which later developed into promoting the idea of tree plantations, whose sole purpose was to provide timber for commercial use. This presentation explores the broad field of forestry, examining its history and the numerous advancements it has experienced over time. Different aspects of forestry are discussed, including the process of growing trees and how timber is harvested. Possible career choices in forest management are also analyzed.

FUNDAMENTALS OF FORESTRY

R2 000.00

Item Number: HSAGRI037 **Duration:** 39 min - DVD

Live-action video footage stimulates interest in forestry and provides an excellent foundation for contest teams. The featured expert has coached three first place teams in the Southern Region FFA and 4-H Forestry contests and 15 first place teams in the Texas State Contest. He discusses and demonstrates 10 of the 12 parts of the Texas State Woodland Clinic Contest: pine identification, rate of growth, selective thinning, tree volume, wood products, wood identification, site index, cull tree removal, woodland suitability, using a compass and pacing. A supplement is included.

TREE ID

R2 000.00

Item Number: HSAGRI038 **Duration:** 39 min - DVD

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PRACTICE TREE ID

R2 000.00

Item Number: HSAGRI039 **Duration:** 25 min - DVD

So much more realistic than flipping through identification booklets! Students can hone their tree identification skills with the visually accurate information given on this videotape that includes 40 hardwood trees and their timber/forage relationships. Viewers are shown close-up shots of each specimen's leaves and bark. Adequate time to examine each specimen is allotted. A key is provided after each of four classes.

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FIELD TRIP: TREE FARM**R2 000.00****Item Number:** HSAGRI040 **Duration:** 24 min - DVD

Go on a different type of "farm" field trip to see how some of nature's most beautiful and useful natural resources are grown and harvested for commercial sale. At this modern tree farm you'll watch selection, planting, digging, pruning, irrigation, commercial sales and shipping operations. Tree farm workers explain what goes into producing high quality, saleable trees for the Christmas holiday, to line a city avenue or to pick up at your local nursery.

FIELD TRIP: LUMBER PRODUCTION**R2 000.00****Item Number:** HSAGRI041 **Duration:** 39 min - DVD

The field trip takes you to Spurlock Logging in the forests of Woodville, Texas, where lumberjacks are clear-cutting trees destined to be turned into newspaper and other paper products. View the shearer, sawhand, skidder and loader harvest the logs and load them onto an 18-wheeler for transport. Follow as the truck pulls into Champion International Corporation's plywood and stud mill. Watch the logs as they are debarked, soaked, peeled and then cut into 2x4s, 4x4s and plywood. A supplement is included.

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