Science - Earth and Space - Grade 9

Careers in Earth Sciences
74927 DVD
27 min I 2007 McIntyre Films
Flying into the eye of a storm, camping at the base of an active volcano, traveling backwards in time students might think these adventures happen only in action movies. This video shows that they also take place in the lives of Earth scientists those frequently daring researchers and theorists who study the past, present, and future of our planet and environment. Venturing into the realms of land, sea, and air, the program presents detailed portraits of a number of intrepid scientific explorers: a marine seismologist, a volcanologist, a meteorologist, a landscape ecologist, and an environmental health scientist.
No Other Versions Available

The Danger of Ascent - the Shuttle Years
74169 DVD
26 min IS 2004 Visual Education Centre
Space Station Alpha’s dimensions grow with the addition of the 91-meter long SO truss. A look at the role played by the Canadarm2 and by the Space Railroad, a mobile structure on which the Canadarm2 will travel. The astronauts face constant danger in all phases of space flight, as seen in the destruction of the shuttle Columbia during its tragic descent through the Earth’s atmosphere on February 1, 2003.
No Other Versions Available

Deep Space: Black Holes and Dark Matter
73375 DVD
10 min IS 2004 Canadian Learning Company
Through to exist at the centre of every galaxy, black holes are invisible and only a few kilometers across. So how do we know they are there? Radio and x-ray images enable scientists to detect, observe and weigh these hungry tunnels that devour matter, light and may even disturb the space-time continuum.
No Other Versions Available

Hadfield, Thirsk and Garneau
74170 DVD
26 min IS 2004 Visual Education Centre
Prolfiling three Canadian astronauts participating in the Space Shuttle program, with a look at the significant role of the Canadarm, operated by Chris Hadfield (1995), the fourth Canadian astronaut in space. Also focusing on Marc Garneau’s second flight (1995), and the fifth Canadian to fly in space, Bob Thirsk (1996).
No Other Versions Available

Outer Space (Bill Nye)
73032 DVD
26 min JI 1995 Magic Lantern Communications
Bill Nye gets close to the solar systems planets and moons, looking at Jupiter’s features, Earth’s elliptical orbit and distances between planets. “Cool Scientist” shows how to make Mars soil. Astronomer, Ellen Howell tracks asteroids.
No Other Versions Available

The Planets (Bill Nye)
73040 DVD
26 min JI 1995 Magic Lantern Communications
Bill Nye talks about outer space, planets, stars, galaxies and the universe. He also visits the Mount Wilson Observatory in California to help illustrate how long it takes light to travel across the galaxy.
No Other Versions Available

Peace Out
76446 DVD
43 min IS 2012 McIntyre Films
Peace Out is the story of British Columbia’s magnificent Peace River and the true on-the-ground costs of fuelling North America’s unrestrained thirst for energy. The film takes an unusually penetrating look at the positions of industry, science, and the activist movement in what has been hailed as ...a thoughtful, clear-eyed exploration of an issue that always ends in costs, trade-offs, and (the) least bad options. This is not just another environmental advocacy film... Wilkinson examines the real benefits vs. the actual costs of a new mega dam, unregulated hydro-fracking, the Peace nuclear proposal, and the Tar Sands. Peace Out is a movie about the true costs of energy. An intelligent debate that leaves the viewer to decide what to believe.
No Other Versions Available

Space Exploration (Bill Nye)
73026 DVD
26 min JI 1998 Magic Lantern Communications
Join Bill as he explores the “final frontier” and shows the tools humans invented to explore space. Meet Dr. Linda Horn, a NASA scientist, who’s helping to develop the cassini spacecraft.
No Other Versions Available

The Sun (Bill Nye)
73025 DVD
26 min JI 1995 Magic Lantern Communications
Bill Nye sheds light on solar flares, eclipses, sun spots, fusion and solar energy, and visits an enormous solar power farm outside Sacramento, California, to demonstrate how the sun is the source of energy for all living things on Earth.
No Other Versions Available

Vanishing of the Bees
76475 DVD
55 min JI 2012 McNabb/Connolly Films
Honeybees, vital to sustaining our food supply, are mysteriously disappearing across the planet, literally vanishing from their hives. This alarming phenomenon, known as Colony Collapse Disorder (CCD), is a serious crisis for commercial beekeepers, whose operations are essential to pollinating hundreds of fruit and vegetable crops worth about $18 billion a year in the US alone. For three years, Vanishing of the Bees investigated the honeybee crisis across the US, Europe, Australia and Asia. Through interviews with scientists and beekeepers around the world, along with animation and stunning cinematography, the film chronicles the rise of CCD and the intensive efforts to find the cause of the disorder and preserve the honeybee population.
No Other Versions Available

Zero - G - the Shuttle Years
74168 DVD
26 min IS 2004 Visual Education Centre
Introducing some of the scientific experiments conducted inside Spacelab, the Shuttle’s microgravity medical laboratory, and inside the International Microgravity Laboratory. Also, a look at the in-orbit launching of Ulysses, set to explore the polar region of the sun, and the testing of new space walking procedures, vital for building Space Station Alpha. Profiling Roberta Bondar (1992), the second of eight Canadian astronauts and the first Canadian woman in space.
No Other Versions Available