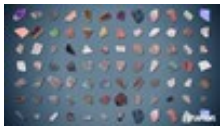
Earth & Space Sciences

79 videos

		Year	Rating	Duration
	**A Rocky Planet** Rocks and minerals have been around since before human beings existed. Since the origins of the human race, we have used them in many diverse ways - from construction to jewelry. But where do they com...	2015	E	00:03:22
	**Acid Rain** Atmospheric pollutants--emitted mainly by motor vehicles and industry--dangerously increase the natural acidity in rain. Acid precipitation has a number of harmful effects for plants, soil, and water....	2013	E	00:01:18
	**Alternate Methods of Sewage Disposal** Series: Wastewater Story Objective: To learn about different methods used for sewage disposal. Learning outcomes - students will be able to: 1. Recognise sewage2. Describe different methods used for sewage disposal3. Describ...	2013	E	00:04:38
	**Astronomy: Probing the First Stars and Galaxies** Visible light, which can be seen with our eyes, comprises a small sliver of the electromagnetic spectrum. The rest of the spectrum, from short wavelength gamma rays to long-wavelength radio waves, req...	2013	E	00:13:48
	**Biophysical Environment: Ecosystems and Interactions** In this program we look at the interactions between the atmosphere, hydrosphere, lithosphere and biosphere at three scales: - Global: latitude and vegetation patterns.- Regional: catchment.- Local: ma...	1998	E	00:22:31
	**Carbon Cycles and Cycles** Our animated atoms have been prevailed upon to make another appearance. At the "Club Chlorophyll", carbon atoms set off on their various carbon cycles.This animated and fun programme looks at:- Glucos...	2001	E	00:17:47
	**Coal, Petroleum and Natural Gas** Series: Natural Resources Objective: To learn about natural resources, coal, the destructive distillation of coal, the importance of natural gas, the origin of petroleum and about petroleum refining.Learning outcomes - student...	2014	E	00:19:13
	**Comets** Series: Space This video explains what a comet is, how they appear from earth and space. The video also describes how comets are formed and how they behave in outer space, and how the differ from other key astronom...	2015	E	00:03:32
	**Composition of the Atmosphere** Objective: To learn the composition of the atmosphere and to know the importance of various components of the atmosphere. Learning Outcomes: 1. Identify the various components of the atmosphere. 2. Ex...	2013	E	00:05:23
	**Consequences of the Earth's Rotation** Series: Space In this video, students will learn about the consequences of the Earth’s rotation and how it impacts time zones.	2016	E	00:03:36

Conserving Water, Conserving Life
Series: Water as a Resource

This unit introduces concepts such as water as a limited resource and water footprints; explaining to students what the impact on the environment of the production of goods has.

2014 E 00:02:36

Cycles and Seasons: Tides, Seasons and Phases of the Moon

Using drama skits and animated computer graphics, this program explores the cycles and seasons that dictate life on earth, and answers the following questions: Why do we get day and night? What are se...

1998 E 00:19:50

Dinosaurs: How We Know What We Know!

In this fascinating film innovative scientific methods are used to answer basic questions about dinosaurs.- What did dinosaurs look like?- What did they eat?- How big and how strong were they?- How di...

1990 E 00:19:48

Diving into the Water Cycle
Series: Miniclips

The water that we drink today is the same water that the dinosaurs swam in and that people of ancient civilisations drank – and it's all because of the wonderful water cycle! This Miniclip illustrates...

2018 E 00:03:13

Earth Systems

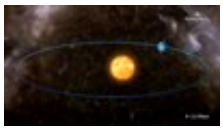
The Earth is composed of systems and layers that interact with each other, fostering life and making our planet what it is today. These systems include the biosphere, the geosphere, the hydrosphere an...

2015 E 00:03:35

Earth's Crust
Series: Bill Nye the Science Guy

Bill Nye goes to the depths of the earth (literally) to explain how the Earth's surface and its inner mantle differ.

1995 E 00:26:55



Earth's Revolution and Its Effects
Series: Space

This video explores the Earth's relationship with the Sun, and how its motion and annual rotation affect seasonal change on Earth.

2017 E 00:04:28

Earth's Seasons
Series: Bill Nye the Science Guy

Bill Nye the Science Guy goes full tilt to give the reasons for the seasons. His worldly perspective shows why when it's winter in America, it's summer in Australia.

1995 E 00:26:06

Earthquakes
Series: Bill Nye the Science Guy

Thousands of earthquakes happen each year and Bill Nye the Science Guy trembles in his boots when he explains what causes them. Find out what makes big pieces of the Earth's crust (the plates) move an...

1995 E 00:27:02

Energy Conservation

This programme takes the audience on a tour of an energy efficient house to show how the average home can cut energy use.

2002 E 00:24:35

Exploring Our Solar System
Series: Into Space

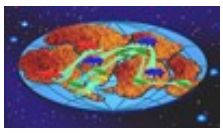
Come on a voyage through the solar system and discover the size, orbits, rotations, moons and other fascinating facts about the Sun and the eight planets orbiting it. This clip also describes some of...

2016 E 00:22:51

Fossils
Series: Bill Nye the Science Guy

Discover the relationship between dinosaurs and birds, and find out that rhinoceroses once lived in Nebraska. Bill also tracks down dinosaur footprints with paleontologist Grace Irby and travels to th...

1997 E 00:26:40



Global Tectonics: Competing Theories

Through dramatisation and animated graphics, this programme clearly explains current theories regarding the structure of the Earth, and how the continents came to be in their current positions. It exp...

2006 E 00:22:19

Igneous, Sedimentary and Metamorphic Rocks
Series: Rocks

Objective: To learn about igneous, sedimentary and metamorphic rocks, their types and formation. Learning outcomes - students will be able to: 1. Describe what igneous rocks are. 2. Explain the types...

2014 E 00:10:10

Irrigation

Objective: To understand the process and different methods of irrigation. Learning outcomes - students will be able to: 1. Explain the process of irrigation2. Discuss the sprinkler and drip systems o...

2013 E 00:03:26

Jupiter
Series: Space

This clip focuses on the largest planet in our solar system, Jupiter. Here, you will learn about its atmospheric properties and what gives the planet its colourful appearance.

2016 E 00:03:22

Living on The Planets: What We Need To Live

This program covers:* MARS - life, viking missions. * Making Mars habitable for plants and humans.* THE MOON - building a base on the Moon.* Producing oxygen and water, building materials.* Mining the...

2000 E 00:20:00

Lunar Eclipse
Series: Space

This video helps students to understand how a lunar eclipse occurs. The umbra and penumbra are both discussed in relation to lunar eclipses.

2014 E 00:03:48

Mars
Series: Space

Explore Mars' fascinating temporal and atmospheric properties in this clip, which gives an insight into the Red Planet and its similarities to Earth.

2015 E 00:02:56

Mars Landing 2012: The New Search for Life

This one-hour special introduces the audience to a team of dedicated scientists who brought Curiosity to life. Brand new science and technology that had never been attempted made this mission a realit...

2012 E 00:45:50

Mercury
Series: Space

This clip will explore Mercury and its characteristics and will also inform students about space missions to the planet.

2016 E 00:02:54

Minerals and Ores

Objective: To learn about minerals and ores. Learning outcomes - students will be able to: 1. Define minerals with examples2. Differentiate between metallic and non-metallic minerals3. Identify ores4...

2013 E 00:03:39

Neptune
Series: Space

This video will allow students to understand the characteristics of Neptune, the eighth planet in the solar system.

2016 E 00:04:26

Nitrogen Cycle 2013 E 00:04:47

Objective: To understand the process of the nitrogen cycle. Learning outcomes - students will be able to: 1. Explain the nitrogen cycle2. Describe the various steps involved in the nitrogen cycle

Nuclear Energy: The Issues 2008 E 00:38:19
Series: Nuclear Energy

Presents the arguments for and against the use of nuclear power to produce electricity, including whether it is the answer to global warming. Relevant background information is included.

Our Earth in Motion: Understanding Time, Tides and Seasons 2006 E 00:22:23

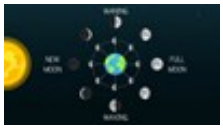
This program explains in detail how the Earth and the Moon move with respect to each other and the Sun, why we have day and night and different time zones, why we have the four seasons every year, the...

Our Planet: Earth 2016 E 00:03:23
Series: Space

How does temperature and atmosphere play such an important role on Earth? In this programme, students will learn about our planet, Earth, and its suitable conditions for life.

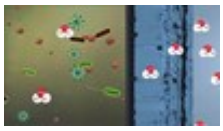
Oxygen 2013 E 00:03:56
Series: Air Around Us

Objective: To learn about the presence of oxygen in air and the oxygen cycle. Learning outcomes - students will be able to: 1. Demonstrate that oxygen occupies one-fifth of the volume of air2. Explai...



Phases of the Moon 2018 E 00:03:38
Series: Miniclips

The Moon. We see it almost every night in the sky – but how much do we know about it? And why does it constantly change appearance? This incredible Miniclip animates all the phases of the Moon, includ...



Potable Water and Water Treatment Plants 2013 E 00:04:30
Series: Wastewater Story

Objective: To know about potable water and water treatment plants. Learning outcomes - students will be able to: 1. Define potable water. 2. Memorise various methods of purifying water. 3. Explain U...

Rainwater Harvesting 2013 E 00:04:44
Series: Separation of Substances

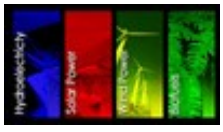
Objective: To learn about rainwater harvesting. Learning outcomes - students will be able to: 1. Describe rain water harvesting. 2. Explain the two most efficient methods used for rain water harvesti...

Renewable Energy 2002 E 00:28:51

This programme profiles examples of technologies harnessing renewable energy - such as a wind farm, a bus running on ethanol, and a solar house - and uses these examples to examine the current state o...

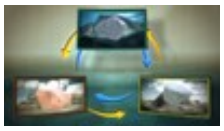
Renewable Energy: The Search for Endless Energy 1999 E 00:24:37

Energy is the foundation of modern life, but in using fossil fuels to satisfy our need for energy we are changing our atmosphere and depending on a rapidly depleting resource. This film looks at the w...



Renewable Fuels 2008 E 00:23:33

Traditionally we have relied heavily upon non-renewable energy resources, however we have reached a point globally where the environment cannot sustain such impact, nor do we have the resources to con...



Rock Cycle
Series: Rocks

Objective: To learn about the rock cycle and its operation. Learning Outcomes: 1. Explain the rock cycle. 2. Discuss the operation of the rock cycle.

2013 E 00:04:31

Saturn
Series: Space

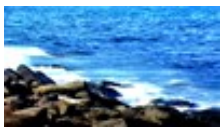
This video will enable students to describe and learn about Saturn - the second largest planet in the Solar System.

2015 E 00:02:17

Sewage and Wastewater Treatment
Series: Wastewater Story

Objective: To learn about wastewater and sewage and their sources and the process of treatment of water. Learning outcomes - students will be able to: 1. Predict how wastewater and sewage are formed 2...

2014 E 00:08:43



Sewage Solutions (Advanced Version)

This programme investigates the problem of human sewage waste and the biological and chemical methods involved in proper treatment.

1992 E 00:31:29

Solar Eclipse
Series: Space

During a solar eclipse, the shadow of the Moon falls on Earth. This video explains what a solar eclipse is and how it occurs.

2014 E 00:03:44

Solar Power: An Alternative Energy Source
Series: Show Me Science Advanced Series

The automobile industry is going through revolutionary changes. The standard petroleum gasoline fuelled engine has some new competition from gas-electric hybrids, electric vehicles, hydrogen fuel cell...

2010 E 00:13:30

Starlight

Having done the grand tour of the universe, we now examine the light from stars and see how it can tell us about the stars within our galaxy. This program covers: - Brightness, distance by parallax, C...

2000 E 00:18:07

Stars of the Universe
Series: Into Space

In this update of our classic programme, we explore important features of the universe through easy to follow, stunning visuals and graphics. Learn about our galaxy home, the Milky Way, and some of th...

2016 E 00:13:21

Sustainable World
Series: Energy and Sustainability

We all share a planet that gives us water, air, food, raw materials... But all of these things are not eternal or inexhaustible. They must be used in a sustainable way. Do you know what sustainability...

2013 E 00:03:23

Telescope
Series: Space

In this video, students will learn about different types of telescopes and how they work.

2016 E 00:04:24

The Carbon Cycle
Series: The Cycles

The carbon cycle has played a critical role in the history of our planet. Found everywhere on earth, in the oceans and the atmosphere, carbon is also crucial to the life of animals, plants and bacteri...

2013 E 00:03:39

The Earth Moves

This video explains how the movements and position of the Earth in space determine the day and night, the seasons and the very existence of life on our planet.

2016 E 00:04:30

The Greenhouse Effect

Objective: To understand the process of the greenhouse effect and know about global warming. Learning outcomes - students will be able to: 1. Explain the process of greenhouse effect2. Identify the c...

2013 E 00:05:42

The House with No Bills: A Case Study on Renewable Energy

Some years ago retired engineer Manfred Pruter and his wife Nita moved from Melbourne to a rural property in Central Victoria. By using solar, wind and numerous water tanks the couple have created the...

2008 E 00:19:17

The Magic of Water
Series: Water as a Resource

This unit explains the water cycle through the endless journey of water around the planet. It makes students understand that water is always travelling and transforming itself; makes them aware of the...

2014 E 00:03:08

The Moon
Series: Space

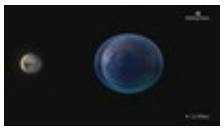
This clip will assist students in learning about conditions on the Moon, including the presence of gravity.

2015 E 00:04:27

The Moon
Series: Bill Nye the Science Guy

Learning about Earth's natural satellite is an out-of-this-world experience as loony Bill Nye illuminates the orbit and phases of the moon. The program features an interview with Harrison Schmitt, the...

1995 E 00:28:09



The Moon and the Tides
Series: Space

What causes tides? In this video, students will learn the difference between a neap tide and a spring tide.

2015 E 00:05:35

The Nitrogen Cycle
Series: The Cycles

The continuously moving nitrogen cycle is essential to life on earth. Found in the cells of all living things, it is also the most common gas in our atmosphere. This motion-graphics based clip looks a...

2013 E 00:04:03

The Phases of the Moon
Series: Space

Objective: To learn about the phases of the Moon. Learning outcomes - students will be able to: 1. Explain the phases of the Moon.

2013 E 00:05:05

The Phosphorus Cycle
Series: The Cycles

Phosphorus is an essential nutrient for all plant and animal life inhabiting the earth, including marine and fresh water environments. The key steps of the phosphorus cycle: weathering and erosion of...

2013 E 00:03:51

The Rock Cycle

Join environmental engineer Will Toliopoulos as he takes us into the field to explore the rock cycle. We begin with a tour of Earth's core, mantle and crust, and how they interact to form the three ma...

2011 E 00:21:04

The Solar System
Series: Space

This video teaches students about the components of the solar system and its relationship to the Sun.

2015 E 00:05:03

The Universe
Series: Space

Stars, planets, and galaxies. These are all objects that make up the universe. In this clip, students will learn about the universe and its various components.

2016 E 00:03:15

The Uses of Water
Series: Water as a Resource

This learning unit explains the relationship between water, health, education, and human development. Through the lives of three children on three different continents, students get to see other reali...

2014 E 00:02:00

The Water Cycle (Advanced)
Series: The Cycles

Water is one of our planet's most important substances. It sustains all living organisms and enables many crucial biological, chemical and physical processes to occur. This motion-graphics based clip...

2013 E 00:04:19

The Water Cycle (Basic)
Series: The Cycles

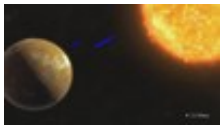
When scientists search for life on other planets, the first thing they look for is the presence of water. On Earth, water exists naturally in solid, liquid and gas states, and is essential to all form...

2013 E 00:03:25

Uranus
Series: Space

This clip explores the seventh planet from the Sun, Uranus. Students will learn of its characteristics and colder temperature compared to other planets in the solar system.

2016 E 00:03:32



Venus
Series: Space

This clip explores the properties of Venus. Students will learn about the planet’s characteristics including its rotation and atmosphere.

2016 E 00:03:05

Water and Biodiversity
Series: Water as a Resource

This learning unit explains what biodiversity is, allowing students to understand how the availability of water determines the diversity of life on Earth and the different ways in which water relates...

2014 E 00:02:06

Water Cycle
Series: Bill Nye the Science Guy

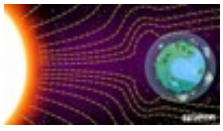
Did you know that most of the water on the planet is the same water that's been here since the earth was formed? Using a whimsical model made of a tiny staircase, wind-up penguins, and a bicycle tire,...

1995 E 00:25:53

Water Pollution
Series: Pollution of Air and Water

Objective: To learn about water pollution. Learning outcomes - students will be able to: 1. Define water pollution2. Discuss the causes of water pollution3. Explain the types of water pollution4. Sta...

2013 E 00:03:29



Weather and Climate

What causes rain, snow, or a hurricane? The weather. In this video, we will learn about weather and its elements, including how these elements combine to produce atmospheric phenomena. We will also ex...

2015 E 00:04:18

Where Does Energy Live?
Series: Energy and Sustainability

Everything that surrounds us needs more or less energy to operate. But all the electricity, fuel for transportation, gas for cooking ... where do they come from? Learn about energy sources and discove...

2013 E 00:03:30

Wind Power: A Renewable Energy Source 2010 E 00:14:13
Series: Show Me Science Advanced Series

Fossil fuels have long been the world's energy source, but it wasn't always that way. Ancient Eastern cultures developed the first known wind mills for drawing water and grinding grains into flour. Th...