

STEPS Primary science resources

Catalogue

STEPS & ScienceTrek multimedia resources

STEPS and ScienceTrek are multimedia resources for the Early & Middle Years of Schooling. There are three components to each kit:

Video programs/DVD

The video programs are entertaining and informative and aim to engage, motivate and increase students' understanding of science and its relevance to their lives. They provide science in action, experts and footage of locations not normally accessible to students and teachers.

DVDs are now available for many titles (indicated below).

Booklets

A comprehensive package that includes sequenced learning activities that integrate ICT, video synopses, background notes, ready-to-use student worksheets, assessment strategies and safety notes where appropriate.

CD-ROMs

The CD-ROMs include a student and teacher section. The teacher section contains an electronic copy of the curriculum materials booklet. The student section provides interactive activities designed to reinforce and/or extend concepts developed in the video programs. A range of games, spreadsheets, morphing software, virtual experiments, images and information are included.

Titles are listed on the following pages.



Level 1 (Prep)

At home and going out

Item No #S101

\$66.00
DVD \$22.00

The senses are used to describe changes observed in the world around us. Program one develops vocabulary to describe different food and the way in which it can be changed. Program two investigates a variety of weather conditions.



Songs, stories and rhymes

Item No #S102

\$66.00
DVD \$22.00

Makes strong links between science, technology and literature. The senses are used to explore the properties of common materials. In program one we go on a Teddy Bears' picnic and in program two we meet up with The Three Billy Goats Gruff.



Weird and wonderful animals

Item No #S103

\$77.00
DVD \$25.00

Highlights the special needs and interesting features of a range of well-known animals. Program one explores the backyard; program two introduces a variety of Australian bush animals and in program three we meet up with some weird and wonderful pets.



Farmyard animals

Item No #S104

\$66.00

Explores a variety of familiar farmyard animals. Program one develops vocabulary to describe the features of farm animals. Program two compares the basic needs of farm animals to those found in the wild. The ways in which farm animals provide us with food and materials for clothing are identified.



Good morning, goodnight

Item No #S105

\$55.00
DVD \$20.00

Develops an understanding of the way day and night effects our daily activities and the lives of animals and plants. Features of day and night are observed.



What's the problem, can you help?

Item No #S106

\$77.00

Introduces the concepts of sound, movement and magnetism. Program one explores the interesting ways in which sounds can be produced. Program two identifies the way in which toys move and how they are powered. Program three highlights the simple uses and properties of magnets.



Level 2 (Year 1 - 2)

Secrets of the sea

Item No #S207

\$66.00
DVD \$22.00

Introduces some fascinating plants and animals that live under the sea. Program one explores the features of a variety of animals and plants that live in rock pools. Program two investigates the different ways marine animals move.



The farm

Item No #S208

\$66.00
DVD \$22.00

Provides the context to explore external features and behaviour of farm animals. Program one develops an understanding about how farm animals produce and care for their offspring. Program two investigates body coverings and external features and structures of farm animals.



Special occasions

Item No #S209

\$66.00

Explores the properties of materials and food substances in a festive context. Program one investigates the properties of materials using fair tests. Program two focuses on three processes of changing food, mixing, melting and dissolving.



Close to home and far away

Item No #S210

\$55.00

DVD \$20.00

Introduces young students to earth science. The composition and properties of a variety of soil types are observed and identified. Investigations help to understand that some plants grow better in certain soils.



Magnets, mirrors and making noise

Item No #S211

~~\$66.00~~ *Discounted to \$55.00

DVD \$22.00

Investigates sounds, magnetism and reflection. Program one explores patterns relating to pitch and loudness of a range of sounds. Program two develops concepts relating to the properties of magnets and mirrors.



*CD is unavailable

Puppet magic

Item No #S212

\$66.00

DVD \$22.00

Uses a fun context to explore science and technology. Program one uses the technology process to construct a number of simple puppets. Program two investigates shadow puppetry and the principle of light and shadow. Simple electric circuits are introduced.



Look outside - what's changing?

Item No #S213

\$77.00

DVD \$25.00

Explores the changes observed in the world around us. Program one focuses on the weather, program two explores changing shadows and program three compares day and night.



Life cycles

Item No #S214

\$77.00

DVD \$25.00

Investigates the life cycle of different animals and plants. Program one focuses on the life cycle of animals that do not undergo a metamorphosis. Program two explores animals with a metamorphic life cycle, such as frogs, butterflies, bull ants, bees and the grain beetle. Program three investigates the life cycles of plants.



Circus and carnivals

Item No #S215

\$77.00

Explores force and movement using the circus as a context. Program one investigates balance and stability. Program two explores the forces involved in movement. Program three investigates movement such as spinning and rocking.



Level 3 (Years 3 - 4)

Chemical clues

Item No #S316

\$55.00

DVD \$20.00

Provides the opportunity to develop an understanding of solids, liquids and gases. Methods of changing the state of a number of substances by adding heat or cooling are investigated.



Level 3 (Years 3 – 4) *(continued)*

Games, toys and making noise

Item No #S317

\$66.00
DVD \$22.00

Uses this context to explore forces and energy. Students describe energy changes from one form one to another. Forces used in everyday such as, push, pull, twist, squeeze and stretch are demonstrated.



Taking care of the Earth

Item No #S318

\$66.00
DVD \$22.00

The context of recycling and erosion are used to develop chemical and earth science. Program one explores recycling of plastic and paper to develop concepts about the process of reversible and irreversible change. Program two investigates the processes of weathering and erosion.



Survival: Past present and future

Item No #S319

\$66.00
DVD \$22.00

Highlights factors that effect the survival of plants and animals in a range of different habitats. Program one explores the life of the dinosaurs from prehistoric Earth and why they became extinct. Program two investigates factors that threaten the survival of plants and animals today.



Gee whiz fizz pop

Item No #S320

\$55.00
DVD \$20

Investigates the processes of evaporation and condensation in two parts. Part one introduces these concepts and uses a number of different examples including the water cycle to illustrate these processes. Part two investigates dissolving solutions and reversible changes. The growing of crystals is explored.



Staying alive

Item No #S321

\$66.00
DVD \$22.00

Introduces the digestive, respiratory and skeletal systems. Program one focuses on the digestive system and also provides an introduction to the system that enables us to breathe, the respiratory system. Program two explores the systems of muscles, nerves and bones.



Earth in a spin

Item No #S322

\$55.00
DVD \$20.00

Investigates the effects of the Earth's rotation in particular day and night cycle. Daily temperature, sunrise and sunset times and time zones are also explored.



Hi-tech

Item No #S323

\$66.00

Explores various structures and introduces simple engineering techniques. Innovative designs are explored and produced.



Level 4 (Years 5 – 6)

It's a material world

Item No #S424

\$66.00

In program 1, students explore the properties of materials. In program 2, they investigate the physical and chemical changes encountered in everyday life.



**Ready set go! -
The science of sport**

Item No #S425

\$66.00

This module investigates the forces that affect movement along various surfaces and through air and water in a variety of sports.



Scientific discovery

Item No #S426

\$77.00

This module explores scientific discoveries across the four science strands of the CSF. It examines some important scientific discoveries and the scientists who made them.



Simple machines

Item No #S427

\$77.00

DVD \$25.00

This comprehensive module explores the force of friction and the operation of simple devices that transfer and transform energy.



Planet Earth

Item No #S428

\$55.00

DVD \$20.00

This module examines the structure of the Earth's interior, crust and atmosphere. It includes an exploration of natural events including earthquakes, drought, cyclones and volcanoes.



Living systems

Item No #S429

\$66.00

DVD \$22.00

This two-part module explores the structural features that work together to enable animals and plants to function.



Depending on each other

Item No #S430

\$66.00

DVD \$22.00

This module investigates the relationships between living things and their relationship with their surroundings in a variety of environments.



Exploring the solar system

Item No #S431

\$66.00

DVD \$22.00

Students investigate the characteristics of the planets and other bodies within the solar system. They learn about the various ways in which the solar system is explored and how information is collected.



