

Classification of Living Things

This program brings to life the topic of classification for your students. Colourful images catch their attention. The narrative line opens the idea of classification as a meaningful scientific investigation. Students begin to see the structure of the system overall. They begin to see that scientific names tell them something about the organism in question. With the help of the video and teaching guide exercises, students will come to understand the meaning behind the biological classification system. You can use this program to wake up student interest in the topic and to provide a lively but solid foundation of understanding.

Junior - Middle Secondary

20 mins Produced in the USA 2002

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90



Photosynthesis – Light into Life

This unique program and print package uses exciting colour animation, on-screen diagrams, and live-action photography to enhance visual learners' understanding of the vital energy-giving process of photosynthesis. Viewers are taken, step-by-step, through the basic details of photosynthesis as well as plant respiration. The program reviews the chemical equations for both processes. The video also discusses the role of chlorophyll and sunlight.

Middle - Senior Secondary

25 mins Produced in the USA 1999

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

**14 day
preview
available on
all titles**

Exploring Bacteria

This program educates students about the basic structure of the bacteria cell along with how the cell carries out life processes such as ingestion and reproduction. The video explores the many different types of bacteria, emphasizing that most forms are important as decomposers and are critical to the food chain. Also explored is the relationship between humans and bacteria: what is good about bacteria, how bacteria can harm us, and how bacteria and humans have evolved together.

Middle Secondary

20 mins Produced in the USA 1998

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Interdependence

This new program identifies the world's ecosystems as it explains the flow of energy and the cycling of matter within them. Terms such as biosphere and biome, biotic and abiotic, autotrophs and heterotrophs, and the food web are defined. The areas of ecology and conservation as fields of study are also explored. The program shows how rainforests serve as a powerful example of the interdependence of life at the global level - and the devastating effects of deforestation.

Middle Secondary

22 Mins Produced in the USA

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90



Microorganisms

This program explores the hidden worlds of moneras, protists, and fungi. After watching the program students will be able to explain what a microbe is, identify general types of microorganisms, and describe the hazards and benefits of microbes. The program explains how such organisms are crucial in helping maintain the atmosphere, assisting in digestion and decomposition.

Middle Secondary - Tertiary

18 mins Produced in the USA 2005

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Introduction to Cells

This program defines and illustrates a variety of animal and plant cells. A concise history of the many theories of cells is provided. In addition, the differences between prokaryotic and eukaryotic cells are discussed in clear terms. The program then identifies cell structures and shows how cells maintain a constant environment through processes of diffusion, facilitated diffusion, and osmosis. The program also reviews how cells function in one-celled environments and multi-cellular organisations. Includes Teacher's Notes.

Middle - Senior Secondary

23 mins Produced in the USA 1997

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Exploring Viruses

This program takes students on a voyage of the human body and explains the role that viruses play. The structure of viruses is illustrated as students learn about antigens, DNA, capsids and capsomeres. The program shows how viruses invade bacteria by injecting themselves inside cells. The role of our immune system in fighting viruses is also explored. Interesting visuals, clear narration, and enhanced graphics make this compelling presentation for middle school students. Includes Teacher's Notes

Junior - Middle Secondary

24 Mins Produced in the USA 1998

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Introduction to Life Science

This program addresses the central topics in biology - evolution, cellular structure and hierarchical organisation, to name only three. It explains the process of scientific inquiry and spotlights key researchers in the life sciences. The program also provides students with a view of many exciting biological fields including biochemistry, ecology, genetics, marine biology, molecular biology and more.

Senior Primary - Junior Secondary

20 mins Produced in the USA 2004

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Life Processes of Organisation & Animals Diversity

This program outlines the characteristics of multicellular animals as it illustrates the specialised structure and function of the four basic animal tissue types. It describes 12 major bodily systems, and analyses the process of homeostasis for both endotherms and ectotherms. A concise history of zoology and species classification are also included, and the distinction between vertebrates and invertebrates is explained.

Junior - Middle Secondary

20 mins Produced in the USA 2004

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Life Processes of Plants

This program explains the major differences - and some striking similarities - between plants and animals in the areas of what they consume, how they breathe and how they reproduce. Plant evolution, cell structure, and the photosynthesis/respiration cycle are explained. We also look at the difference between flowering and non-flowering plants, and sexual and asexual reproduction.

Junior - Middle Secondary

20 mins Produced in the USA 2004

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Planet Earth is teeming with life, and this program helps junior students make sense of it all by examining life at the bottom of the biosphere - home to bacteria, microbes, fungi and insects. This program explains key terms, classifies the kingdoms and domains of life and outlines the Linear hierarchical system. The program contrasts evolutionary taxonomy with cladistic analysis, and provides powerful DNA evidence supporting the unity of life. Also, the fascinating contributions of molecular taxonomy are showcased.

Junior - Middle Secondary

20 mins Produced in the USA 2004

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

The Immune System

White blood cells - the primary line of defence for the immune system - are looked at closely. B Cells and antibodies, and T cells and defence against viruses and bacteria are examined. We also look at antibodies, antigens, microphage, cell mediated immunity, memory cells, cytokines. The development of leukaemia, and active and passive immunisation are reviewed.

Middle Secondary

20 minutes, Produced in Australia 1995

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Modern Biology - An Introduction

Part 1 looks at the history of the biological sciences. The story begins with Hippocrates and his use of the scientific process to determine that diseases have natural causes. The program leads you through "old" to "new" biology from whole organism study to microorganism to relationships between organisms and their environment to molecular biology. *Part II* gives students a peek at several contemporary scientists. It covers biotechnology, ecology, biochemistry, the Human Genome Project, food safety, and stem cells.

Junior - Middle Secondary

50 mins, Produced in the USA 2004

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Cellular Respiration

Cellular Respiration: Energy for Life takes students through the intricate process of cellular respiration. Special effects and high-quality graphics demonstrate how cells convert nutrients into energy. The program describes the steps of aerobic and anaerobic respiration, the Krebs cycle, and the electron transport chain, as well as the concepts of kilocalories, potential energy, and kinetic energy.

Middle Secondary

22 Mins Produced in the USA

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Fax Your Order1300 788 591

I would like to 14 DAY PREVIEW PURCHASE the following titles:

Title	(please tick)		Price
	Video	DVD	

Order Number: _____

Total: _____

Name: _____ Position: _____

Institution: _____

Delivery Address: _____

Postcode: _____ Phone: _____ Fax: _____ Email: _____



Avenue Education: ABN: 89609573797

PO Box 696, Ocean Grove VIC, 3226 -- Phone: 1300 788 617 Fax: 1300 788 591

Email: sales@avenueeducation.com.au

The Story of Us

Using computer graphics and case studies this program gives a fresh view of the evolution of the human body - and reveals how humankind is at a momentous crossroads. We uncover the story of the body parts that together make each one of us a human being. Although our individual parts are unremarkable when taken singly, it's how they're put together that makes us human. Looking at the body as a kind of identikit, we look at just which parts make us so unique, and see where they came from, meeting the strange-looking ancestors that have each contributed a key part, without which we would not have been able to evolve into the human form as it is today.

Senior Secondary - Tertiary

50 mins Produced in the UK 2004

Secondary Schools Price \$86.90

Universities & TAFEs Price \$141.90

Bug Detectives

Forensic Entomology

This program explores the relatively new science of forensic entomology. Using real case studies we follow the work of leading criminal scientists who use insect biology to solve crime. Time lapse photography is used to help show body decomposition and the life cycle of various insects involved in the decomposition process. We see how insects can help determine the time of death and where a person died, and how this science is used in conjunction with toxicology.

Senior Secondary - Tertiary

26 mins Produced in the UK 2002

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Cloning - How & Why

Cloning is one of the most controversial of the new biotechnologies in the 21st century. This up-to-date program takes students to Scotland where Dolly made history as the first cloned mammal. Then we move inside Neal First's laboratory at the University of Wisconsin-Madison where Dr. First explains some of the details of just how cloning is done. Students will be challenged to consider the implications of this revolutionary technology for life in the 21st century.

Middle Secondary - Tertiary

30 mins Produced in the USA 2003

Secondary Schools Price \$86.90

Universities & TAFEs Price \$141.90

If Pigs Could Fly

Imagine a world where people are alive because the heart of a pig is beating inside them, where supersalmon grow 37 times more quickly and where "pharm" animals produce human proteins for our consumption. This revolutionary world is chaotically unfolding in thumb-sized vials and sterile pipettes across the world. This thought-provoking program explores how scientists are defying nature's bottom line creating breeds that evolution wouldn't dare.

Senior Secondary - Tertiary

48 mins Produced in the Canada 2000

Secondary Schools Price \$86.90

Universities & TAFEs Price \$141.90

Gene Guns

This new technology for producing transgenic plants and animals has the potential to change agriculture as dramatically as anything since the plough and the tractor. This program explains how a gene gun works and what the future looks like for changing the genetic heritage of living things.

Senior Secondary - Tertiary

22 mins Produced in the USA 2003

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Water Babies - The Aquatic Ape Theory

Were our ancestors once aquatic? This program examines the current evidence that water played a major role in human evolution and assesses how it stands up to the traditional theory as proposed by Darwin. We talk to experts in the field of human evolution including supporters of the "Aquatic Ape Theory" and examine the evidence.

Senior Secondary - Tertiary

26 mins Produced in the UK 2002

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90



The Gene Squad

For more than two decades, police in a small Canadian town knew who raped and killed a 12-year-old girl. Nothing could prove their case until the science of DNA profiling and a new Canadian law changed everything. This program examines how new technologies are solving old crimes. Thousand of genetic fingerprints are collected daily around the world from convicted felons upon entering prison and entered into the national DNA databanks where they are matched with unsolved crimes. We also consider how the new science of DNA fingerprinting will work as a crime fighting tool and how it has come to challenge our notion of privacy and civil liberties.

Senior Secondary - Tertiary

50 mins Produced in Canada 1997

Secondary Schools Price \$86.90

Universities & TAFEs Price \$141.90

Neanderthal

Neanderthal is the story of the rise and demise of the most successful human species. Combining the latest scientific research with a mixture of drama, prosthetics and cutting edge animation, this two-part series charts one of the greatest stories of evolution. Who were these people? How did they live and why did they die out? The series observes Neanderthal tool-making, their social relationships and organisation, and ultimately their first encounter with the Cro-Magnons (modern humans). *Neanderthal* follows the experiences of a small clan of Neanderthals living in Europe at one of the most important junctures of human evolution.

Senior Secondary - Tertiary

2 x 60 mins, Produced in the UK 2000

Secondary Schools Price: \$108.90

Universities & TAFEs Price: \$174.90

Silent Witness

This program explores a diverse range of sciences and their tools employed to solve crimes including dentistry, entomology and DNA testing. Equally as fascinating are the people who practice them: a university professor who has the ability to discredit a killer's alibi by cultivating the maggots from the victim's decomposing body. A dentist can identify a killer from a single bite mark. And a pathologist who hates the sight of blood. Their challenge is to decipher the volumes spoken from the grave.

Senior Secondary - Tertiary

45 mins Produced in the Canada 1995

Secondary Schools Price \$86.90

Universities & TAFEs Price \$141.90

BEST SELLER
Beyond Reasonable Doubt

The last decade has seen a revolution in the way criminals have been convicted thanks to forensic science. This program looks at the amazing world of advanced forensic techniques. As well as tools such as the comparison microscope, the program considers techniques such as gas and liquid chromatography, blood splatter analysis and DNA profiling including the PCR – DNA cloning technique. We see how DNA databases are helping to solve previously unsolved crimes and, finally, consider the future of forensic science.

Senior Secondary - Tertiary
 28 mins Produced in the UK 2000
Secondary Schools Price: \$86.90
Universities & TAFEs Price: \$141.90

Exploring Inheritance and Genetics

Clear graphics, live action photography, and computer animation reveal to middle school students the fascinating world of Mendelian genetics. Mendel's pea plant experiments are reproduced to illustrate how genetic traits are passed on from one generation to the next. Along the way various terms are defined and understood, such as purebred, cross, genes, alleles, dominant and recessive. Students also learn how to understand Punnett squares to determine the probability that particular traits will show up in successive generations.

Middle Secondary
 26 mins, Produced in the USA 1998
Secondary Schools Price: \$86.90
Universities & TAFEs Price: \$141.90

BEST SELLER
Stem Cells

Take your students inside James Thomson's laboratory at the University of Wisconsin where stem cells were first cultured to learn why this breakthrough is so important in the 21st century. This new program will help you show your students what stem cells are, how they are cultured, why they offer such potential for the future of our health and welfare. The program addresses both the science and the ethical dilemmas that accompany this advance in biology. Includes Hawhill interviews with pioneers in stem cell technology and in stem cell ethics.

Senior Secondary - Tertiary
 30 mins Produced in the USA 2003
Secondary Schools Price: \$75.90
Universities & TAFEs Price: \$108.90

Genetic Engineering

What are the real issues in genetic engineering? Professor David Cove presents an exciting 3-part program in which is explained what genetic engineering is and how it works, and then looks at a number of examples before addressing the underlying ethical questions. Part One of the program explains the nature of DNA, the function it performs and how it replicates. Part Two explains with examples how genetic engineering is performed. Part Three looks at some examples of how genetic engineering is being used and the associated risks.

Senior Secondary - Tertiary
 47 mins Produced in the UK 2000
Secondary Schools Price: \$86.90
Universities & TAFEs Price: \$141.90

Genetic Engineering - A Double Edged Sword

This new program examines the following issues:

- the ability to isolate genes responsible for inherited illnesses;
- the quest to find and cure such illnesses;
- the practice of genetic counselling to inform people about health risks;
- the possibility of indiscriminate aborting of embryos which are not quite perfect;
- and how insurance companies could use information about inherited disorders.

Middle Secondary - Tertiary
 30 mins Produced in the USA 2004
Secondary Schools Price: \$86.90
Universities & TAFEs Price: \$141.90



Fax Your Order1300 788 591

I would like to 14 DAY PREVIEW PURCHASE the following titles:

Title	Video	DVD	Price

Order Number: _____

Total: _____

Name: _____ Position: _____

Institution: _____

Delivery Address: _____

Postcode: _____ Phone: _____ Fax: _____ Email: _____



Avenue Education: ABN: 89609573797
 PO Box 696, Ocean Grove VIC, 3226 -- Phone: 1300 788 617 Fax: 1300 788 591
 Email: sales@avenueeducation.com.au

Science

Bottling the Sun

As traditional fuel supplies threaten to run dry, nuclear fusion has become the Holy Grail of energy production. It promises to replicate the power of the sun here on Earth. This program looks at new developments in the fusion science and technology, which are bringing this energy-producing system closer to a practical reality.

Senior Secondary - Tertiary

26 mins Produced in the UK 2002

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Hi-Tech Foods: Are GMOs Safe?

Fast-tracked by the US Federal Drug Administration, GMOs (genetically modified organisms) have already penetrated deeply into the American food supply. But are they safe? This program examines both sides of the GMO controversy. Agricultural law professor Neil Hamilton, a nutritional consultant, a corn farmer and a University economist discuss reasons for taking a conservative approach and the unfairness of anti-GMO rhetoric. We also consider if the potential benefits of GMOs outweigh the possible risks.

Senior Secondary - Tertiary,

13 mins Produced in the USA

Secondary Schools Price: \$64.90

Universities & TAFEs Price: \$108.90

Classification of Living Things

The video program *The Classification of Living Things* brings to life the topic of classification for your students. The narrative line opens the idea of classification as a meaningful scientific investigation. Students begin to see the structure of the system overall. They begin to see that scientific names tell them something about the organism in question. Students will come to understand the meaning behind the biological classification system. You can use this program to wake up student interest in the topic and to provide a lively but solid foundation of understanding.

Junior - Middle Secondary

20 mins Produced in the USA 2002

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

How the Earth Was Born

This highly visual science program uses stunning computer graphics to show the dramatic events that filled the time between the moment the young planet first boiled in fury to spawning life. Leading earth scientists help tell the story of each event while life scientists explore how the first simple life-forms could have been sparked. We also talk to scientists in Western Australia who reveal the tiny crystals that caused Earth's history to be rewritten.

Senior Secondary - Tertiary

48 mins Produced in the UK 2002

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

The Biosphere

Part 1. A Brief History of the Biosphere. Traces the history of four billion years of the growth of the atmosphere and of changing life on planet earth. *Part 2. The Biosphere Today.* Gives the student a clear, dramatic picture of the scientific concepts needed to understand the biosphere today. In *The Biosphere*, terms explained include: aerobic and anaerobic, amino acids, bacteria, chemical cycles, ecosystem, evolution, fossil fuels, greenhouse effect, homeostasis, natural selection, nitrogen cycle, ozone, phosphorus, photosynthesis, recycling, respiration.

Middle Secondary

38 mins., Produced in the USA 2000

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Weather and Climate

This program shows junior students what causes hurricanes, heat waves and lightning as they learn the fundamentals of meteorology. We see how meteorologists use radar and satellites to try and predict the weather, and consider how storms start, move and dissipate. We then take a look at global warming and how humans affect the climate.

Junior - Middle Secondary

25 mins, Produced in the USA 2001

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Environmental Science

Introducing Rainforest Ecosystems

Produced in Australia, this program introduces junior students to the concept of ecosystems using the Australian rainforest as a case study. Using stunning photography and clear narration, the program covers topics such as the water cycle, food webs, food chains, decomposition and photosynthesis. We see how the plants and animals of the rainforest habitat interact and maintain a balance.

Senior Primary - Junior Secondary

20 mins Produced in Australia 2001

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Populations on Earth

Is the world overpopulated? Will population continue to explode in the coming century or will it level off as it did after the agricultural revolution? Students usually hear only one side of this important issue. (In 2003 a United Nations panel reversed itself, and now fears population decline more than population explosion-even in the developing world!). This program presents many sides using new year-2000 video footage from China, India, Africa, Europe and the U.S.

Junior - Middle Secondary

20 mins Produced in the USA 2003

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Interdependence

This new program identifies the world's ecosystems as it explains the flow of energy and the cycling of matter within them. Terms such as biosphere and biome, biotic and abiotic, autotrophs and heterotrophs, and the food web are defined. The areas of ecology and conservation as fields of study are also explored. The program shows how rainforests serve as a powerful example of the interdependence of life at the global level - and the devastating effects of deforestation.

Middle Secondary

22 Mins Produced in the USA

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Arctic Meltdown - Rising Seas

According to scientists, the rising sea level is arguably one of the world's most important potential impacts of global climate change. This documentary explores two remote regions of the world - the Marshall Islands and the Arctic. It investigates the problems caused by climate change, such as glacial melting, from the perspective of these two environmentally sensitive regions.

Senior Secondary - Tertiary

32 mins Produced in the UK 2000

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Science of Waves

This new 4-part program provides a powerful and fascinating insight into the force of the oceans. Mixing human interest stories and computer animation with archival footage, this program investigates what causes waves, rogue waves, tidal forces and even new surf board design

Senior Secondary - Tertiary

48 mins Produced in the UK 2003

Secondary Schools Price: \$86.90

University & TAFEs Price: \$141.90

The Silent Flood

Examines the threat of salinity from its ancient origins to its future forecasts. This four part series looks at every state affected by salt and talks to Australia's foremost authorities from the farming, environmental and scientific worlds.



Episode 1 - The Story

This episode tells the history of salt in Australia. It answers fundamental questions such as: How did the salt get here? Where is it stored? Why is it a problem now? Although Australians are rapidly discovering impact of salinity - salt has been a part of this country's landscape for hundreds of thousands of years.

Episode 2 - The Land

This episode examines Dryland Salinity, which is the most visible and expensive salinity problem in Australia. Dryland salinity isn't only a rural and environmental problem; it is, increasingly, an urban problem.

Episode 3 - The Water

This episode examines irrigation salinity, and just how saline the Murray-Darling system is and why it's getting saltier. Engineering has created an extraordinary ability to trap and use water - but at what cost to the environment? As the water gets saltier, irrigators are forced to use more water and the problem is exacerbated.

Episode 4 - The Future

In this final episode, Tom Hatton from CSIRO warns that there are two things to remember about salinity: 1. If nothing is done then our country will get saltier, and 2. We cannot concentrate on repairing the past - we must fix the future. This episode takes a broader look at salinity in Australia and the future. What will happen if nothing is done? How can we fix the problem? What steps have been taken? Is Australia the only nation with salinity problems?

Middle Secondary - Tertiary

4 x 26 mins, Produced by the ABC 2003

Episode Price for Secondary Schools: \$86.90

Episode Price for Universities & TAFEs: \$141.90

Series Price for Secondary Schools: \$259

Series Price for Universities & TAFEs: \$359

Fax Your Order1300 788 591

I would like to 14 DAY PREVIEW PURCHASE the following titles:

Title	(please tick)		Price
	Video	DVD	

Order Number: _____

Total: _____

Name: _____ Position: _____

Institution: _____

Delivery Address: _____

Postcode: _____ Phone: _____ Fax: _____ Email: _____



Avenue Education: ABN: 89609573797

PO Box 696, Ocean Grove VIC, 3226 -- Phone: 1300 788 617 Fax: 1300 788 591

Email: sales@avenueeducation.com.au

Bottling the Sun

As traditional fuel supplies threaten to run dry, nuclear fusion has become the Holy Grail of energy production. It promises to replicate the power of the sun here on Earth. This program looks at new developments in the fusion science and technology, which are bringing this energy-producing system closer to a practical reality.

Senior Secondary - Tertiary

26 mins Produced in the UK 2002

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Science of Waves

This new 4-part program provides a powerful and fascinating insight into the force of the oceans and Tsunamis. Mixing human interest stories and computer animation with archival footage, this program investigates what causes waves, rogue waves, tidal forces and even new surf board design

Senior Secondary - Tertiary

48 mins Produced in the UK 2003

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Mean Scream Machines

This program looks at the physics and engineering involved in developing modern-day roller coaster rides. Some of the topics covered include centrifugal force, gravity, motion, inertia, and energy transfer. We see how an accelerometer is used for measuring g-force. We see how roller coaster concepts are developed within the engineering and design constraints.

Middle Secondary - Tertiary

46 mins Produced in Canada 2003

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Electricity and Electronics

This program looks at electrical current, and electromotive force. We examine insulators and superconductors, active and passive electronic components - resistors, capacitors, inductors, transformers, diodes and transistors. Analogue and digital electronics. The solar cell. DC and AC currents.

Senior Secondary - Tertiary

28 mins Produced in Australia 1994

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Organic Compounds in Action

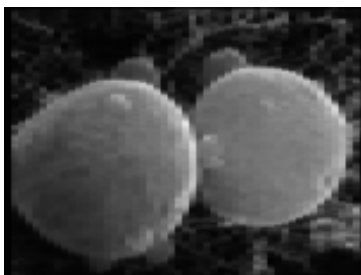
This program is designed to help students understand the unique structures of the different organic compounds. The video uses two- and three-dimensional models as well as live-action footage to clearly illustrate the similarities and differences among the various carbon-based molecules.

Middle Secondary - Tertiary

23 mins Produced in the USA 2000

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90



Organic Chemistry Techniques

This program covers twelve organic techniques such as distillation, recrystallisation and calculation of percentage yield. It also covers topics such as heating, reflux, cooling, drying, filtration and melting points.

Senior Secondary - Tertiary

45 mins Produced in the UK 1997

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Cellular Respiration

How does the marathon runner keep going mile after mile? What gives a sprinter the energy for that final burst of speed? *Cellular Respiration: Energy for Life* takes students through the intricate process of cellular respiration. Special effects and high-quality graphics demonstrate how cells convert nutrients into energy. The program describes the crucial steps of aerobic and anaerobic respiration, the Krebs cycle, and the electron transport chain, as well as the concepts of kilocalories, potential energy, and kinetic energy.

Middle Secondary

22 Mins Produced in the USA

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Microbes In Action

This program presents seven practical demonstrations of microbes in action. We investigate fermentation using different sugar substrates and investigate rates of fermentation by measuring carbon dioxide production. Next is shown how to measure the action of yeast on different flours, and how to microbial growth. We are then shown how to peel an orange using an enzyme, how to make starch sweeter by treatment with amyloglucosidase, and finally how to use yeast cells to generate electricity.

Senior Secondary - Tertiary

30 mins, Produced in the UK 1997

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Basic Techniques in the Microbiology Lab

This program demonstrates the following techniques:

- * inoculating a solid medium,
- * picking a single colony from a solid medium,
- * making a suspension from a solid medium,
- * gram staining and Ziehl-Nelson stain,
- * catalase testing,
- * coagulase testing,
- * disc sensitivity testing,
- * biochemical identification.

Senior Secondary - Tertiary

18 mins Produced in the UK 1997

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Photosynthesis – Light into Life

This unique video and print package uses exciting colour animation, on-screen diagrams, and live-action photography to enhance visual learners' understanding of the vital energy-giving process of photosynthesis. Viewers are taken, step-by-step, through the basic details of photosynthesis as well as respiration. The video reviews the chemical equations for both processes. The video also discusses the role of chlorophyll and sunlight.

Middle - Senior Secondary

25 mins Produced in the USA 1999

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Gravity, Orbits & Asteroids

This program looks at the physics of movement, beginning with the classical notions taught by Aristotle. Galileo proposed very different ideas and his concepts were then further developed by Isaac Newton into a more complete description of how things move. He explained the orbits of heavenly bodies as an extension of how things move on earth. The motion of objects in space is explored finishing with an overview of a modern asteroid tracking project.

Junior - Middle Secondary

15 mins Produced by the ABC 1998

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Food Chemistry

What is the chemical structure of carbohydrates, proteins and fats, and how are they broken down and used by the body? This program looks at these questions, and examines the industrial processes involved in the production of foodstuffs - e.g. brewing, polyunsaturated and saturated fats. We look at the classes of vitamins, and the chemical structure of alcohol consumed by humans.

Middle Secondary - Tertiary

20 mins, Produced in Australia 1994

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

On Sound - And a Seismic Shake

This program looks at the basics of sound, starting with the characteristics of waves. The way that sound propagates is explained, and the basic concepts underlying the speed of sound. The relationship between frequency and wave-length is demonstrated and the existence and use of ultrasonic and subsonic sounds is established. The program closes with a look at the study of seismic waves from earthquakes.

Junior - Middle Secondary

15 mins Produced by the ABC 1998

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Waves

What is a 'wave' and how is it propagated? This program looks at transverse, longitudinal and harmonic waves. We discuss amplitude, frequency and phase characteristics, as well as discuss wave behaviour such as interference, superposition, resonance and diffraction. The concept of wave/particle duality of light is explained.

Senior Secondary - Tertiary

28 mins, Produced in Australia 1994

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

The Periodic Table

Medeleev's periodic table takes into account the effect atomic configuration has on the behaviour and appearance of the elements, and on the way they bond. This program looks at shells, subshells, ions, and the major groups the table. It also looks at the characteristics of metals and non-metals.

Middle Secondary - Tertiary

21 mins, Produced in Australia 1994

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90



Thermal Physics

What is heat? We look at temperature on the Celsius and Kelvin scales, and the transference of heat through convection, conduction and radiation. We also look at the effect of heat on atomic structure - states of matter. Some heat engines are also examined - motors and refrigerators. Finally, the concept of entropy is explained.

Senior Secondary - Tertiary

23 mins, Produced in Australia 1994

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Fax Your Order1300 788 591

I would like to 14 DAY PREVIEW PURCHASE the following titles:

(please tick)

Title	Video	DVD	Price

Order Number: _____

Total: _____

Name: _____ Position: _____

Institution: _____

Delivery Address: _____

Postcode: _____ Phone: _____ Fax: _____ Email: _____



Avenue Education: ABN: 89609573797

PO Box 696, Ocean Grove VIC, 3226 -- Phone: 1300 788 617 Fax: 1300 788 591

Email: sales@avenueeducation.com.au

Asylum - The Lives of the Mentally ill

This two part documentary looks at the lives of the mentally ill in the context of changing social expectations and health care services.

Part 1 - Falling Through The Cracks

This part of the program tracks the lives of four people. They are an ex-doctor battling suicide; a young woman emerging from the twin horrors of rape and abandonment; a 79 year-old man who runs from the memory of electro-shock therapy; and Michael, a mental patient with schizophrenia who ends up homeless.

Part 2 - Not Criminally Responsible

This part of the program examines mentally ill people who have been accused of crimes by a verdict of Not Criminally Responsible. Peter Morin is an explosive man with severe depression who meets a tragic end. Mark Wiebe struggles with addiction, schizophrenia and violence before finding a kind of peace.

Senior Secondary - Tertiary

90 mins Produced in Canada 1999

Secondary Schools Price: \$97.90

Universities & TAFEs Price: \$141.90

Changing Your Mind

Using several case studies and experiments, this new program examines the human brain's ability to adapt and compensate for injuries and disabilities, and provides new insights into our understanding of consciousness and unconsciousness. The program is divided into 6 parts: *The Sight of Touch*, relying on other senses to see. *Grow Your Own Brain*, growing new cells in a mature brain. *True or False?* The brain's ability to rewire itself. *What's in a Dream?* The brain's ability to translate nonsense into narrative. *Monastery of the Mind*, the meaning of consciousness. *The Power of Half*, about a young woman, born with only half a brain.

Senior Secondary - Tertiary

56 mins Produced in the USA 2000

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Anxiety's Hostages

This excellent program profiles three sufferers of acute anxiety illnesses:

- * obsessive-compulsive disorder,
- * claustrophobia and
- * social phobia.

Each condition is examined as a case study with the individuals discussing the progress of the illness and how it has effected their lives. We look at how psychologists tackle each of the symptoms of these conditions and how the sufferers have attempted to overcome their anxieties.

Senior Secondary - Tertiary

48 mins Produced in Canada 1997

Secondary Schools Price: \$97.90

Universities & TAFEs Price: \$141.90

Half Asleep, Half Alive

The circadian rhythms of the human body regulate the time we spend asleep and at rest. Naturally, this means that about one third of our lives will be spent sleeping. This program examines three different kinds of sleep disorders - narcolepsy, shift work fatigue, and sleep apnoea. We consider new techniques to help sufferers and the profound, potentially life-threatening effects on the individuals.

Senior Secondary - Tertiary

48 mins Produced in Canada 1997

Secondary Schools Price: \$97.90

Universities & TAFEs Price: \$141.90

Human Zoo Series

BEST SELLER

Human Zoo explores the mysteries of human behaviour with the help of a distinguished group of psychologists and an unprecedented range of practical experiments. *The Human Zoo* cameras have been watching everyday people, analysing every gesture, every move and every choice we make. The series makes the science of psychology accessible and relevant to senior level students.

Part 1: Brief Encounters

In an unprecedented series of psychological experiments this program examines and explains why people behave as they do. By secretly filming real people in real situations we find out how quickly we form impressions of each other, see the advantages enjoyed by beautiful women and learn why tall men are more successful at work and in love. In an ambitious experiment, 12 people were secretly filmed over a number of days with a psychologist interpreting their every move from a secret control room.

Part 2: Following The Herd

By secretly filming real people in real situations we find how our actions are influenced by the behaviour of other people. We witness people potentially endangering their lives by sitting in a room full of smoke, just because everybody else does. And we discover why if you collapse in the street the more people there are around the less likely you are to get help. What happens to personal relationships when one group is split into two opposing teams?

Part 3: Crimes Of Obedience

Part Three of the *Human Zoo* reveals why authority affects the way we act, think and believe. Watch as everyday shoppers in Edmonton do the most ridiculous things just because a man in uniform tells them to; Meanwhile, at the Human Zoo hostel in Cumbria 'group A' are deliberately put in charge of 'group B' and are told they can ask the subordinate team to do whatever they tell them. As the sparks fly, a leader emerges from the most unlikely of sources. But before the exercise is over, the team with all the authority begins to disintegrate as they are corrupted by power, and the previously 'subordinate' opposing team begin to plot their revenge.

Senior Secondary and Tertiary

3 x 52 mins, Produced in the UK 2001

Episode Price for Secondary Schools: \$97.90

Episode Price for Universities and TAFEs: \$141.90

Series Price for Secondary Schools: \$199.90

Series Price for Universities & TAFEs: \$299.90

I Feel So Ugly – Body Dysmorphic Disorder

Body Dysmorphic Disorder, or BDD, is a rare psychological disease characterised by an obsession with a particular body part, which sufferers envision as being hideously ugly. In this one-hour documentary we will meet six patients and explore the biochemical and environmental factors which may cause BDD, and examine ways of treating this debilitating disorder. This program will take us through the looking glass of the self, into the dark and tragic world of this little-known disease.

Senior Secondary - Tertiary

48 mins Produced in Canada 2000

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Untangling the Mind

The Legacy of Heinz Lehmann

This program offers a poignant look at the man who transformed psychiatric hospitals into therapeutic environments. Extraordinary archival footage of electric shock therapy and lobotomies, coupled with touching images of other patients in the days before drug therapy illustrate how far psychiatric medicine has come. We hear stories of today's patients in budget-strapped hospitals, and conclude by looking at the next stage of psychiatric medicine.

Senior Secondary - Tertiary

50 mins Produced in the USA 2002

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Baby It's You Series

The series is informed by the latest scientific research with each episode taking a different human characteristic and tracing its development over the first years of life.

Part 1 – In The Beginning

From the moment of birth: how babies see and hear. How they motivate other people to care for them and gradually start to make sense of the world.

Part 2 – First Steps

The long sometimes gleeful struggle to sit up, crawl and finally make that one small step. We look at how babies attempt to overcome their physical limitations

Part 3 – Taking Hold

In this program we see the evolution from the primitive grasp of the newly born child to the creativity and dexterity of a two year old. We consider how infants develop muscle power and co-ordination.

Part 4 – Word of Mouth

This program looks at the development of language and we see how babies discover how to make words, know what they mean and how they go together.

Part 5 – The Thinker

In this program we consider the development of the infant brain and how they apply creative thinking. We see how children are driven to make sense of the world and learn by imitating and taking action.

Part 6 – You and Me

In this program we examine how babies acquire a sense of self, develop attachments form relationships. We see how infants develop new behaviours, influence the behaviour of others and provoke reactions.

Senior Secondary - Tertiary

6 x 25 mins Produced in the UK 1999

Episode Price for Secondary Schools: \$75.90

Episode Price for Universities & TAFEs: \$108.90

Series Price for Secondary Schools: \$299.00

Series Price for Universities & TAFEs: \$399.00

Fax Your Order1300 788 591

I would like to 14 DAY PREVIEW PURCHASE the following titles:

Title	(please tick)		Price
	Video	DVD	
Order Number: _____			Total: _____

Name: _____ Position: _____

Institution: _____

Delivery Address: _____

Postcode: _____ Phone: _____ Fax: _____ Email: _____



Avenue Education: ABN: 89609573797

PO Box 696, Ocean Grove VIC, 3226 -- Phone: 1300 788 617 Fax: 1300 788 591

Email: sales@avenueeducation.com.au

Science

Weather and Climate

This program shows junior students what causes hurricanes, heat waves and lightning as they learn the fundamentals of meteorology. We see how meteorologists use radar and satellites to try and predict the weather, and consider how storms start, move and dissipate. We then take a look at global warming and how humans affect the climate.

Junior - Middle Secondary

25 mins, Produced in the USA 2001

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

NEW

Arctic Meltdown - Rising Seas

According to scientists, the rising sea level is arguably one of the world's most important potential impacts of global climate change. This documentary explores two remote regions of the world - the Marshall Islands and the Arctic. It investigates the problems caused by climate change, such as glacial melting, from the perspective of these two environmentally sensitive regions.

Senior Secondary - Tertiary

32 mins Produced in the UK 2000

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

Food

Food is a local issue, a global issue, and a development, political and economic issue. This program asks: How can we design a food system that ensures health, accessibility and affordability for everyone. We go around the world to look at some unique food delivery systems, including organic farming and speak to experts and scientists who offer ideas on how to make food systems more equitable.

Senior Secondary - Tertiary

50 mins Produced in Canada 2000

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

How the Earth Was Born

This highly visual science program uses stunning computer graphics to show the dramatic events that filled the time between the moment the young planet first boiled in fury to spawning life. Leading earth scientists help tell the story of each event while life scientists explore how the first simple life-forms could have been sparked. We also talk to scientists in Western Australia who reveal the tiny crystals that caused Earth's history to be rewritten.

Senior Secondary - Tertiary

48 mins Produced in the UK 2002

Secondary Schools Price: \$86.90

Universities & TAFEs Price: \$141.90

NEW

Four Corners - City Limits

We like our dishwashers, we like our spa baths and we like our green gardens. The future might mean that we have to decide which of those things we're prepared to give up. In 'City Limits' we ask: who is brave enough to solve our urban water crisis? Sydney, Australia's largest and most populated city, is leading the race to run out of water first, according to Australia's water guru Professor Peter Cullen. As the NSW government looks set to announce their major water plan, we examine what might happen - will it go for the easy fix, or put in place what we really need to secure the city's water future?

Middle Secondary - Tertiary

45mins, Produced by the ABC 2004

Secondary Schools Price: \$97.90

University & TAFEs Price: \$178.90

Cities

This program looks at what sustainability means to locations as diverse as Los Angeles, Sao Paulo, Brazil and Vancouver. Experts and scientists give their views on what living sustainably in the world's cities means, and the question is asked 'can we take care of the people and the environment?'

Senior Secondary - Tertiary

50 mins, Produced in Canada 2000

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

Geography

Populations on Earth

Is the world overpopulated? Will population continue to explode in the coming century or will it level off as it did after the agricultural revolution? Students usually hear only one side of this important issue. (In 2003 a United Nations panel reversed itself, and now fears population decline more than population explosion-even in the developing world!). This program presents many sides using new year-2000 video footage from China, India, Africa, Europe and the U.S.

Junior - Middle Secondary

20 mins Produced in the USA 2003

Secondary Schools Price: \$75.90

Universities & TAFEs Price: \$108.90

NEW

Four Corners - Ocean Views

The rush is on for a beachside lifestyle...but in the drive for a sea-change are we in danger of loving our beaches to death? Australia's coastline is under pressure as never before. From Broome to Bermagui, the rush is on for a beachside lifestyle. In the pipeline are billions of dollars worth of residential and tourist projects and thousands of jobs. Four Corners looks at the sensitive issue of coastal development through the prism of the Tweed Shire, a picturesque and once sleepy hollow on the NSW side of the border from the Gold Coast.

Middle Secondary - Tertiary

45mins, Produced by the ABC 2003

Secondary Schools Price: \$97.90

University & TAFEs Price: \$178.90



Science of Waves

This new 4-part program provides a powerful and fascinating insight into the force of the oceans. Mixing human interest stories and computer animation with archival footage, this program investigates what causes waves, rogue waves, tidal forces and even new surf board design

Senior Secondary - Tertiary

48 mins Produced in the UK 2003

Secondary Schools Price: \$86.90

University & TAFEs Price: \$141.90

Real Oil Crisis?

What would happen if the world were to start running out of oil? Conventional wisdom says we've got 30 years, but there's a growing fear amongst petroleum experts it's happening much sooner than we thought – that we are hitting the beginning of the end of oil now. So how soon will the oil run out, and can we stop our economy collapsing when it does? How prepared are we for the real oil crisis?

Middle Secondary - Tertiary

15 mins, Produced by the ABC 2005

Secondary Schools Price: \$86.90

University & TAFEs Price: \$141.90

Physical Geography DVD Library **NEW**

A well-grounded scientific understanding of our planet requires a working familiarity with the Earth's habitats and inhabitants. New from the Discovery Channel is the Physical Geography DVD Library, a comprehensive educational resource drawn from the video archives of the Discovery Channel.

The series, on three DVDs, includes 61 video clips on the subject of physical geography:

* **Part 1 - Physical Systems** (contains 14 video clips on ecology, biomes, and natural resources)

* **Part 2 - Biomes** (contains 23 video clips on aquatic, desert, grassland, rainforest, and tundra biomes)

* **Part 3 - Regions, Environment & Society** (contains 24 video clips on rocks and minerals, land and water, structures, and environmental issues)

This series has been produced for maximum educational impact and flexibility, including a downloadable MPEG-1 video file for every clip. Each DVD comes with a user guide. Whether used for group presentations in a classroom or as part of an independent study program, these three-to-five minute video clips combine excellent video content with up-to-date instructional content to deliver a concise message on a focussed topic.

Middle Secondary - Tertiary

3 x 60 mins (approx) Produced in the USA 2004

Episode Price for Secondary Schools: \$75.90

Episode Price for Universities & TAFEs: \$108.90

Series Price for Secondary Schools: \$159

Series Price for Universities & TAFEs: \$259



Fax Your Order1300 788 591

I would like to 14 DAY PREVIEW PURCHASE the following titles:

Title	(please tick)		Price
	Video	DVD	

Order Number: _____

Total: _____

Name: _____ Position: _____

Institution: _____

Delivery Address: _____

Postcode: _____ Phone: _____ Fax: _____ Email: _____



Avenue Education: ABN: 89609573797

PO Box 696, Ocean Grove VIC, 3226 -- Phone: 1300 788 617 Fax: 1300 788 591

Email: sales@avenueeducation.com.au