

The New Living Body

An exciting series of programs designed to show how the body works and to introduce health education issues.

Each program has three major components:
Live action film to set the scene, up-to-date imaging data to show how the human body works and computer graphics revealing what can be seen using imaging technology or surgery.

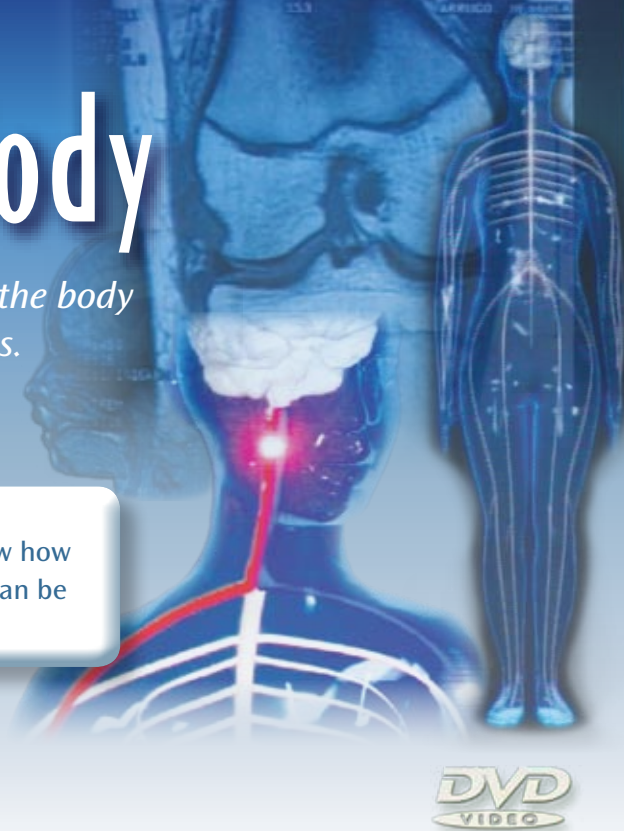
The series has been designed for the secondary science curriculum however the program material can be successfully used in other areas such as Personal, Social and Health Education and Physical Education.

Teacher's Notes included.

10 x 20 minute programs
Produced by Sarah Ball © Granada Media

Using the Series

Each of the programs is free standing and may be shown in any sequence. The commentaries of the program are designed for average students in the 14 – 16 year age range, with technical terms explained as appropriate. However, the material is suitable for use over a much wider age and ability range. The topics covered are presented in an interesting and often unusual way that would not normally be so readily achievable in a classroom situation. Where possible, the material is placed in the context of real life situations to show the relevance of science and technology to everyday life. The programs encourage students to view science within a social setting and to question for themselves the social, moral and ethical implications raised by some of today's scientific issues.



The New Living Body Series

- DVD Format \$396.00 BRD131
- Digital Format \$495.00 BRL519 or available individually

The New Living Body Volume 1

Bones and Joints

Movement and the human skeleton, structure and function of joints, bone growth, injury, treatment and repair, the effects of exercise and degenerative diseases.

Muscles

The nature of muscle – smooth, skeletal and cardiac - their location, structure and function. The relationship between muscle mass and body shape, aerobic and anaerobic respiration, neuromuscular disease and physical fitness.

Cross-curricular links: The effects of lifestyle on healthy growth, child development, sports injuries and how to avoid them, the action of the skeleton and muscles in particular sporting activities such as weight-lifting, high jump and boxing.

(2 x 20 minutes)

- DVD Format \$88.00 BRD126
- Digital Format \$110.00 BRL520

The New Living Body Volume 2

Breathing

The lungs and associated organs. Ventilation of the lungs and gas exchange, the role of mucus, causes and symptoms of cystic fibrosis, applications of enzyme technology, measurement of lung function and genetic diseases and gene therapy.

Digestion

The locations and functions of fat in the body, healthy diets, structure and functions of the digestive tract and associated organs, the process of digestion, fat metabolism, regulation of adipose tissue and the role of the liver in fat metabolism.

Cross-curricular Links: Smoking and its effects on the lungs, the importance of exercise, social and ethical implications of genetic screening, exercises for improving respiratory efficiency, healthy eating, food purchase and preparation.

(2 x 20 minutes)

- DVD Format \$88.00 BRD127
- Digital Format \$110.00 BRL521

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The New Living Body Volume 3

Skin

The structure and functions of the skin, sunburn and how to avoid it, the effects of ultraviolet light on the skin, the inflammatory response, how and why the body produces melanin and the causes and treatments of skin cancer.

Blood

Blood structure and function, the heart and circulation, haemoglobin, DNA and protein synthesis, gas exchange at the cellular level, genetic counselling and MRI (magnetic resonance imaging).

Cross-curricular Links: The effects of peer pressure/ advertising/fashion on how we treat our bodies, personal hygiene, preventative medicine, racial awareness, the social and ethical implications of genetic screening.

(2 x 20 minutes)

- DVD Format \$88.00 BRD128
- Digital Format \$110.00 BRL522

The New Living Body Volume 4

The Brain

Using combinations of computerised tomography (CT), magnetic resonance imaging, (MRI) and advanced surgical techniques, we see why the brain is so important and explore what is known about how it works.

The Senses

The role our senses have in providing information about the world - the visual system, the vestibular system, the relationship between the brain and the sensory organs and using modern technology to overcome our sensory limitations.

Cross-curricular Links: Child development, drug and alcohol abuse and its effects on brain function, links between social and biological evolution and the impact of technological development on society and individuals.

(2 x 20 minutes)

- DVD Format \$88.00 BRD129
- Digital Format \$110.00 BRL523

The New Living Body Volume 5

Homeostasis

What happens to the body during a marathon race? By monitoring the various physiological responses of a runner we can see how the body regulates temperature, blood oxygen, blood glucose, water balance, heart rate, breathing rate and hormone levels.

Reproduction: Designer Babies

The structure & function of DNA, social, economic and ethical implications of genetic manipulation, pre-natal screening techniques, genetic abnormalities, artificial insemination & embryo transplants.

Cross-curricular Links: Athletes and drug abuse, the importance of training and preparation before sporting activities, civil liberties - implications of genetic databanks, the consequences of selective breeding on human populations.

(2 x 20 minutes)

- DVD Format \$88.00 BRD130
- Digital Format \$110.00 BRL524



WHAT'S YOUR POISON?

This five part series explains the mechanisms through which these drugs have their effect, and in doing so illuminates some aspect of the workings of the human body. The science and the medicine is placed in context of the fascinating social history that surrounds the different "drugs" in question. From the Quantum series.

5 x 30 minute programs ©ABC Television
 DVD Format \$275.00 ABD384

Nicotine

Why nicotine is addictive, and how the nicotine molecule can be genetically manipulated.

Caffeine

One of the most addictive of all drugs – the effects are passed on to our offspring.

Alcohol

Now known as a problem drug, alcohol is still a socially acceptable poison.

Marijuana

It seems that the social history may have outweighed the scientific evidence.

Ecstasy

Opium through to Prozac - we can now mimic the brain's natural pain killers. Creative, new and powerful drugs can actually change our behaviour.

RECREATIONAL DRUGS

Dr Norman Swan and his team examine four legal and illegal recreational drugs that are most commonly used. The program investigates the effects on health of *Alcohol, Ecstasy, Marijuana* and *Nicotine*. From the Dimensions Health series.

27 minutes ©ABC Television

- DVD Format \$88.00 ABD385

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