

**KEY** Organisms Genes Relationships Health Citizenship Ecosystems Maritime Eco Futures

**YR7**

**Y7 UNIT 1**

**Personal safety**

How do I stay safe in science?  
How do I stay safe in the community?  
How do I stay safe online?  
How do I gain, earn, and show respect?

**Y7 UNIT 2**

**Levels of organisation**

What are the components of plant and animal cells?  
How are specialised cells adapted for their function?  
How are multicellular organisms organised?  
What is the structure and function of the skeleton?  
How do muscles allow organisms to move?

**Y7 UNIT 3**

**Relationships and reproduction**

What are healthy and unhealthy relationships?  
What happens during adolescence?  
What is meant by fertilisation?  
What are the stages of the menstrual cycle?

**Y7 UNIT 5**

**Geography**

**Eco-Futures - The environment**

How do organisms interact in an ecosystem?  
How do humans affect ecosystems?  
What is photosynthesis?  
How are leaves adapted for photosynthesis?

**Y7 UNIT 4**

**The nervous system**

What is the structure and function of the nervous system?  
What factors affect the nervous system?  
What is neurodiversity?  
What is mental health?

**Y7 UNIT 6**

**Politics**

What is Parliament?  
What happens during a general election?  
What is the role of the Cabinet?

**Y8 UNIT 1**

**PE, Food Technology**

**Healthy Living**

How are diseases transmitted between people and how can we prevent the spread of disease?  
What are vaccines and antibiotics?  
How do lifestyle choices affect your health?  
What is first aid and how can it be used to save a life?

**Y8 UNIT 2**

**PE**

**Gas Exchange**

What is the structure and function of the respiratory system?  
What is diffusion and what factors affect the rate of diffusion?  
How does gas exchange occur in humans?  
How does smoking, vaping, and air pollution affect your respiratory system?

**Y8 UNIT 4**

**PE, Food Technology**

**Digestion**

What is a balanced diet?  
Why are nutrients important?  
How is food digested?  
What is aerobic and anaerobic respiration?

**Y8 UNIT 3**

**Geography, RE**

**Variation**

What is variation and how does variation occur?  
How do organisms inherit traits?  
How do organisms evolve?  
Why do organisms become extinct?

**Y8 UNIT 5**

**Eco-Futures**

How is the use of science developing a sustainable and ecological friendly future?

**Y8 UNIT 6**

**Money**

How do I manage money?  
What is gambling and fraud?  
How do I gain employment?

**YR9**

**Y9 UNIT 1**

**Physical Science, RE**

**Forensic Science**

How are laws made?  
What are the signs of exploitation by gangs and county lines?  
What are the laws on driving under the influence of drugs and alcohol?  
What is the role of a forensic scientist?

**Y9 UNIT 2**

**English**

**Inheritance**

What is the structure and function of DNA?  
What are genetic crosses and how do we predict the likelihood of inheriting specific traits?  
What is the process of genetic engineering and how can genetic engineering be used?

**Y9 UNIT 4**

**Plant Reproduction**

What is the structure of a flower?  
How do plants and flowers reproduce?  
Why are pollinators important?

**Y9 UNIT 3**

**Reproductive Health**

What are healthy and unhealthy relationships?  
What is contraception?  
What are STIs and how can they be prevented?  
What are the stages of pregnancy?

**Y9 UNIT 5**

**PE, Geography, Design & Technology**

**Eco-Futures**

How do we use cross curricula links to design and plan large scale projects in a sustainable and ecologically friendly way?

**Y9 UNIT 6**

**Cell Level Systems**

What is the structure of prokaryotic and eukaryotic cells?  
How are microscopes used to study cells?  
What is the structure and function of DNA?  
What are enzyme controlled reactions and what factors affect enzymes?  
What is aerobic and anaerobic respiration?  
What is photosynthesis and what factors affect the rate of photosynthesis?

**KS4**