

## Science Curriculum Overview

### Science Threads

Life Processes and organisation	Substances and properties	Stuff (matter)
Living things and their environments	Particles and Structure	Forces and Energy
Evolution and inheritance	Chemical reactions	Waves, Electricity and Magnetism
Healthy Lives	Our Earth	Beyond Earth

### Year 9

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Life processes and organisation Healthy Lives	Substances and properties Particles and Structure Chemical reactions	Forces and Energy Matter	Waves, electricity and magnetism	Living things in their environments Life processes and organization Evolution and inheritance	Substances and properties Particles and Structure Chemical reactions Our Earth
Cells and systems Health and disease	Atoms, elements and compounds Chemical reactions	Energy Forces and speed Heat transfer	Electricity and magnetism Waves	Ecology Photosynthesis Evolution	Metals and alloys Fossil fuels and combustion Environmental impact of chemistry
ELC Component 1	ELC Component 3	ELC Component 5	ELC component 6	ELC component 2	ELC component 4

## Year 10

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Life processes and Organisation Healthy Lives	Life processes and Organisation Healthy Lives	Healthy Lives Life processes and organisation	Particles and Structure Chemical Reactions	Forces and Energy Beyond Earth Matter	Particles and structure Chemical reactions Particles and structure
Circulatory system Respiration Effects of exercise Digestive system and digestion	Cells and levels of organisation Infectious diseases and the immune system	Drugs and drug testing Coordination and control	Atomic structure The Periodic table Chemical reactions	Effect of forces on motion Turning forces Weight mass and gravity Speed Radioactivity	Metals and alloys Reactions of metals Chemical bonding Polymers
Matter Forces and Energy	Waves, Electricity and Magnetism Forces and Energy	Forces and Energy			Forces and Energy
Energy stores and transfers Thermal energy stores and heat transfer	Power and energy in electrical appliances Domestic electricity	Forces in Sport			Forces in motor vehicles

## Year 11

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Life processes and organization	Substances and properties Chemical reactions	Inheritance and evolution	Our Earth Substances and properties Chemical reactions		
Photosynthesis Interdependence and feeding relationships Pollution	Reactions of acids Acids and alkalis Rates of reaction	Evolution and natural selection Sexual and asexual reproduction Genes and monohybrid inheritance Genetic engineering	The atmosphere and human impact Hydrocarbons and crude oil Fuels and energy from crude oil		
Forces and energy Electricity, waves and magnetism	Waves, electricity and magnetism	Waves, electricity and magnetism Forces and energy	Waves, electricity and magnetism		
Renewable and non renewable energy resources Generating and using electricity	Current, potential difference and resistance	Wiring a plug Electrical power and energy transfers Electrical appliances Magnets and electromagnets	The electromagnetic spectrum Waves		