



Term One

Term Two

Term Three

Year 7

Biology - Cells
Overview: Introduction to the structure and function of cell organelles in plant, animal and bacterial cells.

Chemistry - Particles
Overview: How substances change state and what factors can change the rate of diffusion.

Physics - Energy
Overview: The different types and stores of energy, including renewable and non-renewable energy and be able to calculate the power of different appliances

Biology – Reproduction
Overview: The changes that take place during puberty, the differences in the male and female reproductive systems and describe what happens during pregnancy and birth

Physics - Forces
Overview: Introduction to forces, how we measure them and their effects

Chemistry - Atoms
Overview: The Periodic Table, atoms, elements, compounds and mixtures

Year 8

Biology – Interdependence and evolution
Overview: What affects the populations of organisms and how do they adapt to the change.

Physics – Waves
Overview: How energy such as sound and light can be transferred by different types of waves

Chemistry – Chemical Reactions
Overview: An introduction to the reactivity series and pH scale, including the reaction of acids, alkalis and bases

Biology – Organisation and digestive system
Overview: How the body breaks down, absorbs and uses the nutrients that we eat in our food

Physics - Electricity
Overview: The different types of electricity, how electrical circuits are constructed and represented in diagrams, and how electricity is generated

Chemistry – The Earth and its atmosphere
Overview: The different types of rock that make up Earth’s surface and the pollutants that can affect the atmosphere.

Year 9

Physics
NC KS3 Space

Biology
B1 Cell structure and transport
B2 Cell division

Chemistry
NC KS3 Properties of ceramics, polymers and composites
C1 Atomic Structure
C2 The Periodic Table

Physics
P1 Conservation and dissipation of energy
P2 Energy transfer by heating

P3 Energy resources
B3 Organisation and the digestive system
B4 Organising animals and plants

Physics
P4 Electric Circuits
P5 Electricity in the home

Biology
B8 Photosynthesis
B9 Respiration

Year 10
Biology

Biology
B3 Organisation and the digestive system

Biology
B4 Organising animals and plants
B5 Communicable diseases

Biology
B6 Preventing and treating disease

Biology
B7 Non-communicable diseases

Biology
B8 Photosynthesis
B9 Respiration

Biology
B10 The human nervous system
B11 Hormonal Control
B12 Homeostasis in action

Year 10
Chemistry

Chemistry
C3 Structure and bonding

Chemistry
C4 Chemical calculations
C5 Chemical changes

Chemistry
C6 Electrolysis

Chemistry
C7 Energy changes
C8 Rates and equilibrium

Chemistry
C9 Crude oil and fuels
C10 Organic reactions

Chemistry
C11 Polymers

Year 10
Physics

P4 Electric Circuits
P5 Electricity in the home

P6 Molecules and matter
P7 Radioactivity

P8 Forces in balance
P9 Motion

P10 Force and motion

P11 Force and Pressure

P12 Wave properties

Year 10
Combined

C4 Chemical calculations
C5 Chemical analysis
C6 Electrolysis

B4 Organising animal and plants
B5 Communicable diseases
B6 Preventing and treating disease
B7 Non-communicable diseases

P6 Molecules and matter
P7 Radioactivity

C7 Energy changes
C8 Rates and equilibrium
C9 Crude oils and fuels

P8 Forces in balance
P9 Motion
P10 Force and motion

B10 The human nervous system
B11 Hormonal Control
B12 Homeostasis in action

Year 11
Combined

B10 The human nervous system
B11 Hormonal Control
B13 Reproduction

C9 Crude oils and fuels
C12 Chemical analysis
P12 Wave Properties
P13 Electromagnetic waves
P15 Electromagnism

C13 The Earth’s atmosphere
C14 The Earth’s resources
B15 Genetics and Evolution

B16 Adaptations, interdependence and competition
B17 Organising an ecosystem

B18 Biodiversity and ecosystems

Year 11
Biology

B10 The human nervous system
B11 Hormonal Control
B12 Homeostasis in Action

B13 Reproduction
B14 Variation and evolution

B15 Genetics and evolution
B16 Adaptations, interdependence and competition

B17 Organising an ecosystem
B18 Biodiversity and ecosystems

Year 11
Chemistry

C11 Polymers
C12 Chemical Analysis

C12 Chemical Analysis
C13 Chemistry of the Atmosphere

C14 The Earth’s resources
C15 Using resources

Revision

Year 11
Physics

P8 Forces in balance
P9 Motion
P10 Force and motion

P11 Force and Pressure
P12 Wave properties

P13 Electromagnetic waves
P14 Light
P15 Electromagnetism

P16 Space

Science Curriculum Map

Key:

Biology

Chemistry

Physics