



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