

# KS3 Science Year 7, 8 & 9

## Science Units

### Biology

### Chemistry

### Physics

#### Year 7 Science

**Organisms: Cells.**  
**Genes: Reproduction.**  
**Organisms: Structure and function of body systems**  
**Part 1.**

**Matter: Particle Model, Separating Mixtures, Atoms and the periodic table.**  
**Reactions: Metals and Non-metals, Acids and Alkalis.**  
**Earth: Earth Structure.**

**Forces: types of forces, balanced and unbalanced forces.**  
**Waves: Sounds and Light**  
**Earth and Space: Solar system, hemispheres, day, and night.**  
**Matter: density and diffusion**

#### Year 8 Science

**Organisms: Structure and function of body systems**  
**Part 2.**  
**Health and Lifestyle.**  
**Genes: Inheritance.**  
**Ecosystems:**  
**Ecosystems , sampling techniques and competition.**

**Matter: Particles and equations, Atoms and the periodic table.**  
**Reactions: Types of reaction, Acids and Alkalis**  
**Speeding up reactions.**  
**Earth: Climate and Earths resources.**

**Electricity and Magnetism: Magnets and electromagnets, electricity.**  
**Energy: useful and wasted energy, energy resources, energy transfer.**  
**Motion and Pressure: Speed, motion graphs and pressure.**

#### Year 9 Science

**Genes: Reproduction, variation and natural selection.**  
**Ecosystems:**  
**Photosynthesis and respiration.**  
**Organisms: Cells, cells to systems.**

**Matter: Atoms and the periodic table, Equations and Particles.**  
**Earth: Purifying resources.**  
**Reactions: Acids and alkalis.**

**Forces and motion: speed, acceleration, and forces.**  
**Energy: energy stores, energy transfers work and power and efficiency.**  
**Waves, Sounds and Light waves and the electromagnetic spectrum.**  
**Electricity and Magnetism: electricity, magnets, and electromagnetism.**

#### Assessment Overview

Mid-point and Endpoint Check-it's will be completed for each unit.

End of term assessments will be completed to cover all previous work.

Assessment questions will be a mixture of different question styles, including multiple-choice questions, short answer questions, calculations and extended open-response questions.

Calculators may be used in all of the science assessments