

## Year 7 Overview

AUTUMN TERM	
Cells, tissues and organs	Overview of cell structure, function and organisation in plants and animals
Ecology	An investigation into the flow of energy within an ecosystem
Particles in action	An exploration of the arrangement and behaviour of particles in solids, liquids and gases

SPRING TERM	
Reproduction	Overview of reproduction in plants and animals
Combustion	An introduction into chemical reactions through a study of combustion

SUMMER TERM	
Forces	A theoretical and practical exploration of the three laws of motion.
Elements, mixtures & compounds	Definition, Identification and comparison of elements, mixtures and compounds.
Light &Space	Studying the laws surrounding the behaviour of light and the Earths position in the universe.

## Year 8 Overview

AUTUMN TERM	
Acids & Alkalis	A practical approach to identifying acids and alkalis and products of acid/alkali reactions
Nutrition & Digestion	A study using real world examples of the nutritional values of food groups and diets. A description and explanation of how food is digested in humans.
Forces 2	Through experiments students calculate of speed, pressure, and moment.

SPRING TERM	
The periodic table	Developing understanding of how chemists organise elements and the structure of atoms.
Photosynthesis	An investigation into how plants are adapted to maximise glucose production.

SUMMER TERM	
Electricity and Magnetism 1	A practical exploration of magnetism and a theoretical and practical exploration of series and parallel circuits.
Metals 1	Identifying the general properties of metals, how reactivity changes and its impact on chemical reactions.
Heat and Sound	Investigating how and why heat is transferred, including the importance of heat reduction in homes. Looking at how and why sound is transferred.

## Year 9 Overview

AUTUMN TERM	
Genetics and Evolution	An investigation into variation, the inheritance of characteristics and the mechanism of evolution.
Our Earth	A study of the rock cycle and the individual types of rock that make up our planet.
Electricity and Magnetism 2	Looking at how and why electricity is generated. The advantages and disadvantages of alternative sources of energy.

SPRING TERM	
Exercise and Health	Analysing the fitness of an individual. Explaining how the structure of the skeleton and muscles allows smooth movement. The impact of lifestyle on health.
Chemical reactions	An exploration of different chemical reactions including a comparison of endo and exothermic reaction.

SUMMER TERM	
KS 3 Revision	An analysis of weaknesses in key stage three, addressing them and preparation for KS3 exam.
GCSE preparation.	Developing practical skills and academic skills in preparation for the GCSE course.