Science	A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Working Scientifically	Year 7			Year 8			Year 9			Year 10			Year 11		
Scientific attitudes															
Experimental skills and investigations															
Analysis and evaluation															
Measurement															
Subject Content: Biology	Year 7			Year 8			Year 9			Year 10			Year 11		
Structure and function of living organisms: Cells and organisation															
The skeletal and muscular systems															
Nutrition and digestion															
Gas exchange systems															
Reproduction															
Health															
Material Cycles & Energy: Photosynthesis															
Cellular respiration															
Interactions and interdependencies: Relationships in an ecosystem															

Genetics & Evolution: Inheritance, Chromosomes, DNA & Genes																
Subject Content: Chemistry	Year 7			Year 8			Year 9			Year 10			Year 11			
The particulate nature of matter																
Atoms, elements and compounds																
Pure and impure substances																
Chemical reactions																
Energetics																
The Periodic Table																
Materials																
Earth and atmosphere																
Subject Content: Physics	Year 7			Year 8			Year 9			Year 10			Year 11			
Energy: Calculation of fuel uses and costs in the domestic context																
Energy changes and transfers																
Changes in systems																
Motion and forces: Describing Motion																
Forces																
Pressure in fluids																

Balanced forces				■				■							
Forces and motion				■				■							
Waves: Observed Waves		■					■								
Sound waves		■					■								
Energy and waves		■					■								
Light waves		■					■								
Electricity and electromagnetism: Current Electricity					■							■			
Static electricity					■							■			
Magnetism					■							■	■		
Matter: Physical Changes	■									■					
Particle model	■													■	
Energy in matter	■									■					
Space physics			■							■					

Above is an indication of the skills and knowledge continued in the GCSE Specification (Combined)