



Topics are taught on a rotation basis, each class will cover all of the content below but may be studying it at different points in the year.

Throughout the year the following topics are covered						
7	<p><b>Topic: B1 Cells</b></p> <p>Observing plant and animal cells Specialised cells and the movement of substances Unicellular organisms</p> <p><b>Topic: P1 Forces</b></p> <p>Squashing and stretching Drag and friction Balanced and unbalanced forces</p>	<p><b>Topic: C1 Particles</b></p> <p>Particles and states of matter Changes of state Diffusion and gas pressure</p> <p><b>Topic: C2 Elements, atoms and compounds</b></p> <p>Elements, atoms and compound Chemical formula</p>	<p><b>Topic: P2 Sound</b></p> <p>Sound and energy transfer (waves) Loudness, pitch, echoes &amp; ultrasound Detecting sound</p> <p><b>Topic: B2 Body systems</b></p> <p>Levels of organisation Breathing and gas exchange Human anatomy (muscles and skeleton)</p>	<p><b>Topic: C3 Reactions</b></p> <p>Chemical reactions and their word equations Combustion, decomposition and conservation of mass Endothermic and exothermic reactions</p> <p><b>Topic: C4 Acids and alkalis</b></p> <p>Acids and alkalis Indicators, pH and neutralisation Making salt</p>	<p><b>Topic: B3 Reproduction</b></p> <p>Adolescence, reproduction, fertilisation &amp; implantation The menstrual cycle and development of a foetus Plant reproduction</p> <p><b>Topic: P3 Light</b></p> <p>Light, reflection, refraction &amp; colour The eye and the camera</p>	<p><b>Topic: P4 Space</b></p> <p>The Earth and the Solar System. The night sky and the Moon.</p> <p><b>Constant topic throughout the year:</b> Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data</p>
8	<p><b>Topic: B1 Health and lifestyle</b></p> <p>Testing food for nutrients Healthy and unhealthy diets Bacteria and enzymes in digestion Drugs ,alcohol and smoking</p> <p><b>Topic: P1 Electricity and magnetism</b></p> <p>Positive and negative charges Electrical circuits and current , potential difference and resistance Series and parallel circuits Magnets, magnetic fields and creating electromagnets</p>	<p><b>Topic: C1 periodic table</b></p> <p>Differences between metals and non-metals Differences between groups and periods Elements of groups 1,7and 0</p> <p><b>Topic: C2 Separation Techniques</b></p> <p>Solubility within mixtures and solutions Techniques such as filtration, evaporation, distillation and chromatography.</p>	<p><b>Topic: B2 Ecosystems processes</b></p> <p>Photosynthesis, Leaves and plant minerals Chemosynthesis in bacteria Aerobic and anaerobic respiration in humans and microorganisms Food chains and webs in ecosystems with disruptions</p> <p><b>Topic: P2 Energy</b></p> <p>Food and fuels Differences between energy and temperature Transferring energy using particles and radiation Power and work from energy</p>	<p><b>Topic: C3 Metals and acids</b></p> <p>Reactions of metals with acid, oxygen and water Displacement reactions between metals Extracting metals using the reactivity series Properties of ceramics, polymers and composites</p> <p><b>Topic: C4 The Earth</b></p> <p>The earth and its atmosphere Properties of sedimentary, igneous and metamorphic rocks with their cycles Carbon cycle and climate change Advantages and disadvantages of recycling</p>	<p><b>Topic: B3 Adaptations and inheritance</b></p> <p>Competition and adaptation within animals Adaptations and variation in animals Continuous and discontinuous graphing and results Inheritance and natural selection of animals Extinctions and how they occur</p> <p><b>Topic: P3 Motion and pressure</b></p> <p>Speed calculations Understanding motion graphs Pressure with solids, liquids and gases Moments of forces</p>	<p><b>Constant topic throughout the year:</b> Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data</p> <p><b>End of key stage assessment</b></p>