

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						
<b>7</b>	<p><b>Topic: B1 Cells</b></p> <p>Microscopes Cell Structure Animal &amp; Plant cells Diffusion Specialised Cells</p> <p><b>Topic: P1 Energy</b></p> <p>Fuels &amp; Energy Stores Energy Stores &amp; Transfers Power Energy Resources</p>	<p><b>Topic: C1 Particles</b></p> <p>Simple Particle Model Properties of Different States of Matter Changes of State Gas Pressure</p> <p><b>Topic: C2 Atoms, Elements &amp; Compounds</b></p> <p>The Atomic Model Symbols &amp; Formulae Elements &amp; Compounds</p>	<p><b>Topic: P2 Speed</b></p> <p>Speed Distance-time Graphs Relative Motion</p> <p><b>Topic: B2 Skeletal &amp; Muscular Systems &amp; Organisation</b></p> <p>The Skeleton Biomechanics Principles of Organisation</p>	<p><b>Topic: C3 Pure &amp; Impure Substances</b></p> <p>Diffusion Pure &amp; Impure Separation</p>	<p><b>Topic: P3 Forces</b></p> <p>Basic Forces &amp; Diagrams Naming &amp; Categorising Forces Stretching &amp; Squashing Forces Hooke's Law &amp; Work Done Moments &amp; Simple Machines Balanced Forces Forces &amp; Motion</p>	<p><b>Constant topic throughout the year:</b></p> <p>Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data</p>
<b>8</b>	<p><b>Topic: B3 Nutrition &amp; Digestion</b></p> <p>Testing food for nutrients Healthy and unhealthy diets Bacteria and enzymes in digestion Drugs ,alcohol and smoking</p> <p><b>Topic: P4 Pressure in Fluids</b></p> <p>Pressure in Liquids Atmospheric Pressure Pressure Calculations</p>	<p><b>Topic: C4 Chemical Reactions</b></p> <p>Reactions, Conventions &amp; Signs a Reaction has Occurred Combustion, Thermal Decomposition, Oxidation &amp; Displacement Conservation of Mass Acids, Alkalis &amp; pH Reactions of Acids with Metals &amp; Alkalis</p> <p><b>Topic: C5 Energy Changes</b></p> <p>Changes of State Endothermic &amp; Exothermic Reactions</p>	<p><b>Topic: P5 Sound</b></p> <p>Types of Waves Sound Waves Microphones &amp; Ultrasound</p>	<p><b>Topic: P6 Light</b></p> <p>Light &amp; Ray Models Interactions of Light Waves with Materials Mirrors, Pinhole Cameras &amp; the Eye Detecting Light &amp; Colour</p>	<p><b>Topic: B4 Gas Exchange Systems</b></p> <p>Ventilation Gas Exchange Exercise. Asthma &amp; Smoking</p> <p><b>Topic: B5 Reproduction</b></p> <p>Sexual Reproduction &amp; the Reproductive Organs Fertilisation Fetal Development The Menstrual Cycle Plant Reproduction</p>	<p><b>Constant topic throughout the year:</b></p> <p>Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data</p>
<b>9</b>	<p><b>Topic: B6 Photosynthesis</b></p> <p>Photosynthesis Leaf Structure</p> <p><b>Topic: P7 Electricity in Circuits</b></p> <p>Conductors &amp; Insulators Circuits, Current, Potential Difference &amp; Resistance Series &amp; Parallel Circuits</p>	<p><b>Topic: C6 The Periodic Table</b></p> <p>Properties of Metals &amp; Non-Metals Groups, Periods, Metals &amp; Non-Metals</p> <p><b>Topic: C7 Materials</b></p> <p>Metal Reactivity Metal Extraction with Carbon Ceramics, Polymers &amp; Composites</p>	<p><b>Topic: B7 Respiration</b></p> <p>Aerobic Respiration Anaerobic Respiration</p> <p><b>Topic: P8 Static Electricity</b></p> <p>Static Charges Electric Fields</p>	<p><b>Topic: B8 Ecosystems</b></p> <p>Food Chains Food Webs &amp; Interdependence Insect Pollination &amp; Food Security</p> <p><b>Topic: P9 Magnets</b></p> <p>Magnets &amp; Magnetic Fields Earth's Magnetism Electromagnets &amp; Motors</p>	<p><b>Topic: B9 Inheritance</b></p> <p>DNA and Chromosomes Variation Competition &amp; Natural Selection Biodiversity</p> <p><b>Topic: P10 The Particle Model (Physics)</b></p> <p>Particle Motion &amp; Density Energy in Matter</p> <p><b>Topic: P11 Space</b></p> <p>Stars, Planets &amp; Galaxies The Seasons Weight</p>	<p><b>Constant topic throughout the year:</b></p> <p>Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data</p> <p><b>End of key stage assessment</b></p>

