



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	<p>Topic: B1 Cells</p> <p>Observing plant and animal cells Specialised cells and the movement of substances Unicellular organisms</p> <p>Topic: P1 Forces</p> <p>Squashing and stretching Drag and friction Balanced and unbalanced forces</p>	<p>Topic: C1 Particles</p> <p>Particles and states of matter Changes of state Diffusion and gas pressure</p> <p>Topic: B2 Body systems</p> <p>Levels of organisation Breathing and gas exchange Human anatomy (muscles and skeleton)</p>	<p>Topic: P2 Sound</p> <p>Sound and energy transfer (waves) Loudness, pitch, echoes & ultrasound Detecting sound</p> <p>Topic: C2 Elements, atoms and compounds</p> <p>Elements, atoms and compound Chemical formula</p>	<p>Topic: C3 Reactions</p> <p>Chemical reactions and their word equations Combustion, decomposition and conservation of mass Endothermic and exothermic reactions</p> <p>Topic: P3 Light</p> <p>Light, reflection, refraction & colour The eye and the camera</p>	<p>Topic: B3 Reproduction</p> <p>Adolescence, reproduction, fertilisation & implantation The menstrual cycle and development of a fetus Plant reproduction</p> <p>Topic: C4 Acids and alkalis</p> <p>Acids and alkalis Indicators, pH and neutralisation Making salt</p>	<p>Topic: P4 Space</p> <p>The Earth and the Solar System. The night sky and the Moon.</p> <p>Constant topic throughout the year: Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data</p>
8	<p>Topic: B1 Health and lifestyle</p> <p>Testing food for nutrients Healthy and unhealthy diets Bacteria and enzymes in digestion Drugs ,alcohol and smoking</p> <p>Topic: C1 periodic table</p> <p>Differences between metals and non-metals Differences between groups and periods</p>	<p>Topic: C1 periodic table</p> <p>Elements of groups 1,7and 0</p> <p>Topic: P1 Electricity and magnetism</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>Topic: B2 Ecosystems processes</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>Topic: C2 Separation Techniques</p> <p>Solubility within mixtures and solutions Techniques such as filtration, evaporation, distillation and chromatography.</p>	<p>Topic: P2 Energy</p> <p>Food and fuels Differences between energy and temperature Transferring energy using particles and radiation Power and work from energy</p> <p>Topic: C3 Metals and acids</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>Topic: B3 Adaptations and inheritance</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>Topic: C4 The Earth</p> <p>The earth and its atmosphere Properties of sedimentary, igneous and metamorphic rocks with their cycles</p>	<p>Topic: C4 The Earth</p> <p>Carbon cycle and climate change Advantages and disadvantages of recycling</p> <p>Topic: P3 Motion and pressure</p> <p>Speed calculations Understanding motion graphs Pressure with solids, liquids and gases Moments of forces</p>
9	<p>Topic: B1 Cells</p> <p>Using microscopes Animal and plant cells Diffusion Osmosis</p> <p>Topic: P1 Energy</p> <p>Energy stores Energy and Work Gravitational Potential Energy Kinetic energy Energy and Power</p>	<p>Topic: B2 Cell Division</p> <p>Cell Division Growth and differentiation Stem cells</p> <p>Topic: C1 Atomic Structure</p> <p>Chemical equations Separating mixtures Structure of the atom Ions and isotopes</p>	<p>Topic: B3 (Organisation and the) Digestive System</p> <p>Tissues and organs Chemistry of food Human digestive system Catalysts and enzymes</p> <p>Topic: C2 The Periodic Table</p> <p>History of the periodic table Electronic structure Group 1 - Alkali Metals Group 7 – Halogens</p>	<p>Topic: P2&3 Energy transfer and resources</p> <p>Conduction, convection and infrared radiation Specific heat capacity Energy from Renewable resources Energy issues</p> <p>Topic: C3 Structure and Bonding</p> <p>Ionic Bonding Covalent bonding Ionic and covalent compounds Fullerenes and graphite</p>	<p>Topic: B4 Organising animals and Plants</p> <p>Heart and blood vessels Breathing and gas exchange Organ systems in plants Exchange of materials using transport systems in plants</p> <p>Topic: P4&5 Electricity</p> <p>Electric current, potential difference and resistance Series and parallel circuits Alternating current Electrical appliances and power Energy transfer and currents</p>	<p>Topic: C4 Chemical Calculations</p> <p>Topic: B5 Communicable diseases</p> <p>Health, pathogens and preventing diseases Diseases caused by virus, bacteria, fungi and protest Human defence responses</p>

