

Calendar	Topic	Assessment	Sequencing and Coherence <i>concepts - themes - skills</i>	Literacy <i>reading - vocabulary - oracy - writing</i>
Autumn Term – HT1	<p>B2 Diet and health including digestion, malnutrition, obesity and enzymes.</p> <p>Y8 Working scientifically covering experimental terminology, maths and science</p> <p>B3 Genes and evolution including DNA, evolution and inheritance</p>	<p>Assessed in end of Autumn term synoptic test and through extended writing task for each unit.</p> <p>Educake quiz which is automatically marked and returned to students with corrections. Students are tested on the lesson objectives for this unit.</p> <p>Assessed in end of Autumn term synoptic test and through extended writing task for each unit.</p>	<p>An understanding of organ systems is required via B1 before B2 can be delivered.</p> <p>This unit builds on Y7 unit and introduces additional vocabulary such as: range, repeatability and reproducible in preparation for y9.</p> <p>B3 builds on Y7 B1cells now students understand the role of the cells nucleus</p>	<p>B2 glossary is provided to students in their learning journey.</p> <p>Literacy – ultra processed foods reading and comprehension task</p> <p>Working scientifically glossary is provide to pupils in their learning journey.</p> <p>B3 glossary is provide to pupils in their learning journey. Literacy - talk tactics to classify based on similar features.</p> <p>Oracy - Presentation to class on species extinction.</p>
Autumn Term – HT2	<p>C4 Acids and alkalis covering indicators, neutralisation and uses of neutralisation</p> <p>B4 Photosynthesis and respiration including transpiration, breathing, aerobic and anaerobic respiration</p>	<p>Assessed in end of Autumn term synoptic test and through extended writing task for each unit.</p> <p>Assessed in end of Autumn term synoptic test and through extended writing task for each unit.</p>	<p>Students are able to understand neutralisation fully due to studying chemical reactions previously.</p> <p>B4 requires prior knowledge of plants as producers needed prior to studying ecosystems.</p>	<p>C4 glossary is provide to pupils in their learning journey. Literacy - Talk tactics to categorise substances are acid, alkaline or neutral Literacy – Acid bath murderer task.</p> <p>B4 glossary is provide to pupils in their learning journey.</p>

Spring Term – HT 3	<p>P3 Electricity and electromagnets covering circuits, current, voltage, resistance and magnets</p> <p>C5 Useful materials includes composites and life cycle assessments. This unit is completed after half term</p>	<p>Assessed in end of Spring term synoptic test and through extended writing task for each unit.</p> <p>Assessed in end of Spring term synoptic test and through extended writing task for each unit.</p>	<p>Knowledge of structure of the atom (C1) is needed to explain static and current electricity. Properties of metals (C3) is needed to explain conduction and electromagnetism.</p>	<p>P3 glossary is provide to pupils in their learning journey.</p> <p>C5 glossary is provide to pupils in their learning journey.</p>
Spring Term – HT 4	<p>C5 Useful materials (2nd half of unit)</p> <p>B6 Ecosystems covering habitats, food chain and webs and biomagnification.</p>	<p>Assessed in end of Spring term synoptic test and through extended writing task for each unit.</p>	<p>A working knowledge of photosynthesis is required previously to understand food chains and webs</p>	<p>B6 glossary is provide to pupils in their learning journey. Literacy - B6 "Save the bees" presentation</p>
Summer Term – HT 5	<p>C6 Earth and atmosphere including igneous, metamorphic and sedimentary rocks, rock cycle and the carbon cycle</p> <p>P2 Levers and pressure covering turning forces, principle of moments and atmospheric pressure (first ½ of unit)</p>	<p>Assessed in end of Summer term synoptic test and through extended writing task for each unit.</p> <p>Assessed in end of Summer term synoptic test and through extended writing task for each unit.</p>	<p>Prior understanding of photosynthesis (B4) and combustion (C3) needed to explain the carbon cycle in C6.</p> <p>A sound understanding of forces is needed prior to this unit.(P1). Mathematical demand in terms of deciphering units and re-arranging equations is considerably higher than other KS3 topics</p>	<p>C6 glossary is provide to pupils in their learning journey.</p> <p>Literacy - Talk tactics to categorise igneous, sedimentary and igneous rocks.</p> <p>P2 glossary is provide to pupils in their learning journey.</p>

Summer Term – HT 6	<p>P2 Levers and pressure (2nd ½ of unit)</p> <p>P5 Waves including reflection, refraction, colours of light, sound and hearing</p>	Assessed in end of Summer term synoptic test and through extended writing task for each unit.		P5 glossary is provide to pupils in their learning journey.
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