

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

Spring Term – HT 3	P3 Electricity and electromagnets covering circuits, current, voltage, resistance and magnets C5 Useful materials includes composites and life cycle assessments. This unit is completed after half term	Assessed in end of Spring term synoptic test and through extended writing task for each unit. Assessed in end of Spring term synoptic test and through extended writing task for each unit.	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.	P3 glossary is provide to pupils in their learning journey. C5 glossary is provide to pupils in their learning journey.
Spring Term – HT 4	C5 Useful materials (2 nd half of unit) B6 Ecosystems covering habitats, food chain and webs and biomagnification.	Assessed in end of Spring term synoptic test and through extended writing task for each unit.	A working knowledge of photosynthesis is required previously to understand food chains and webs	B6 glossary is provide to pupils in their learning journey. Literacy - B6 "Save the bees" presentation
Summer Term – HT 5	C6 Earth and atmosphere including igneous, metamorphic and sedimentary rocks, rock cycle and the carbon cycle P2 Levers and pressure covering turning forces, principle of moments and atmospheric pressure (first ½ of unit)	Assessed in end of Summer term synoptic test and through extended writing task for each unit. Assessed in end of Summer term synoptic test and through extended writing task for each unit.	Prior understanding of photosynthesis (B4) and combustion (C3) needed to explain the carbon cycle in C6. 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	C6 glossary is provide to pupils in their learning journey. Literacy - Talk tactics to categorise igneous, sedimentary and igneous rocks. P2 glossary is provide to pupils in their learning journey.

Summer Term – HT 6	P2 Levers and pressure (2 nd 1/2 of unit) P5 Waves including reflection, refraction, colours of light, sound and hearing	Assessed in end of Summer term synoptic test and through extended writing task for each unit.		P5 glossary is provided to pupils in their learning journey.
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