



Year group: 8	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	Topic: Biology 8A Food and nutrition. Topic: Chemistry 8E Combustion	Topic: Physics 8I Fluids. Topic: Biology 8B Plants and their reproduction.	Topic: Chemistry 8F The periodic table Topic: Physics 8J Light.	Topic: Biology 8C Breathing and Respiration. Topic: Chemistry 8G Metal and their uses.	Topic: Physics 8K Energy transfers Topic: Biology 8D Unicellular organisms.	Topic: Chemistry 8H Rocks Topic: Physics 8L Earth and Space.
Subject Content Outline	8A: The main components in the human diet and why they are needed. 8E: Combustion and oxidation reactions	8I: Changes of state, and fluids and some of their effects. 8B: Reproduction in plants, both sexual and asexual	8F: Matter, atoms and chemical and physical change. 8J: How light travels and what happens when it meets an object	8C: Gas exchange in humans and other organisms 8G: Common physical properties of metals	8k: Energy transfers by heating in the context of homes 8D: Detailed look at what unicellular organisms are	8H: Different types of rock and the processes that bring about their formation 8L: Earth, including the seasons and the Earth’s magnetic field and gravity
Aims/Assessment Objectives	The national curriculum for science aims to ensure that all pupils: <ul style="list-style-type: none"> develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future. 					
Assessment	Assessment: Mid-topic assessment, peer assessment, October assessment	Assessment: Mid-topic assessment, peer assessment, End of term assessment	Assessment: Mid-topic assessment, peer assessment, End of topic assessment	Assessment: Mid-topic assessment, peer assessment, February PPE	Assessment: Mid-topic assessment, peer assessment, End of topic assessment	Assessment: Mid-topic assessment, peer assessment, End of year assessment
Cross curricular opportunities	Literacy, Food Technology, PE, Citizenship	Literacy, Technology, Geography	Literacy, Technology	Literacy, Geography, PE, RM	Literacy, Technology, Music	Literacy, Technology, Geography
The faculty is highly committed to the provision of well-structured extracurricular opportunities that develop key skills and extend pupil learning in fun, stimulating ways. We run our own STEM club which provides opportunities to inspire pupils in Science, Technology, Engineering and Mathematics. Pupils take part in exciting projects which gives them insight into the exciting career opportunities available in these areas						

