Science Curriculum Overview Key Stage 3

Year group: 7	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	**Topic: Chemistry 7F Acids and Alkalis** **Topic: Biology 7B Sexual reproduction in animals**	**Topic: Biology 7A Cells, tissues, organs and systems.** **Topic: Physics 7J Current and electricity.**	**Topic: Physics 7I Energy** **Topic: Chemistry 7E Mixtures and separation.**	**Topic: Chemistry 7G The particle method.** **Topic: Biology 7D Ecosystems**	**Topic: Biology 7C Muscles and Bones.** **Topic: Physics 7L Sounds**	**Topic: Physics 7K Forces.** **Topic: Chemistry 7H Atoms, Elements and molecules.**
Subject Content Outline	**7F**: Chemistry in the home – how do we use chemicals safely? **7B:** Animal reproduction	**7A:** Life processes and cells **7J:** Electricity and electrical circuits	**7I:** Sources of Energy – food and fuels **7E:** How do we separate various mixtures?	**7G:** What is the particle theory of matter? **7D:** What makes us different? What are adaptations?	**7C:** Muscles and breathing, blood and moving. Drugs and the body. **7L:** How do we describe and hear sounds?	**7K:** What can forces do? **7H:** What are materials made from?
Aims/Assessment Objectives	The national curriculum for science aims to ensure that all pupils: • 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, End of topic assessment	Assessment: Mid-topic assessment, peer assessment, End of term assessment	Assessment: Mid-topic assessment, peer assessment, **January PPE**	Assessment: Mid-topic assessment, peer assessment, **April PPE**	Assessment: Mid-topic assessment, peer assessment, End of topic assessment	Assessment: Mid-topic assessment, peer assessment, End of topic assessment
Cross curricular opportunities	Literacy, Geography, RE, Citizenship	Literacy, Technology , PE	Literacy, Technology, Geography	Literacy, Geography	Literacy, PE, Technology, Music	Literacy, Technology, PE, 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.					

Social, Moral, Spiritual, Cultural	Wider issues (for example, spiritual, moral, ethical, social, legal, sustainable development, economic and cultural issues), including those relevant to the education of candidates at Key Stage 3, have been taken into account when preparing this specification. They will only form part of the assessment requirements where they are relevant to the specific content of the specification.					
Homework	Doddle, QWC questions, targeted worksheets, research tasks	Doddle, QWC questions, targeted worksheets, research tasks	Doddle, QWC questions, targeted worksheets, research tasks	Doddle, QWC questions, targeted worksheets, research tasks	Doddle, QWC questions, targeted worksheets, research tasks	Doddle, QWC questions, targeted worksheets, research tasks