Science Curriculum Overview Key Stage 3

Year group:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit to be studied	**Topic: Biology 9A Genetics and Evolution.** **Topic: Chemistry 9E Making Materials.**	**Topic: Physics 9I Forces and Motion.** **Topic: Biology 9B Plant Growth.**	**Topic: Chemistry 9F Reactivity** **Topic: Physics 9J Force Fields and Electromagnets.**	**Topic: Biology 9C Revision and projects.** **Topic: Chemistry 9G Revision and Projects.**	**Topic: Physics 9L Revision and Projects.** **Topic: Biology 9D Transition to GCSE.**	**Topic: Chemistry 9H Transition to GCSE.** **Topic: Physics 9L Transition to GCSE.**
Subject Content Outline	**9A**: Causes of variation, and inherited variation **9E**: The manufacture, properties and uses of different types of materials	**9I**: Changes of state, and fluids and some of their effects **9B**: Photosynthesis and aerobic respiration in plants	**9F**: Matter, atoms and chemical and physical change. **9J**: How light travels and what happens when it meets an object	**9C**: The review of all the statements for the biology component of the NC for KS3 **9G**: Common physical properties of metals	**9K:** The review of all the statements for the physics component of the National Curriculum for Key Stage 3. **9D**: The unit uses the context of disease to cover some themes in biology that will be developed in students' GCSE science.	**9H**: This unit uses the context of art to cover some basic themes in chemistry that will be developed in students' GCSE science courses **9L**: This unit looks at some concepts in science that students will encounter during their GCSE studies, set in the context of explaining weather phenomena.
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,	Assessment: Mid-topic assessment, peer assessment,	Assessment: Mid-topic assessment, peer assessment,	Assessment: Mid-topic assessment, peer assessment,	Assessment: Mid-topic assessment, peer assessment,	Assessment: Mid-topic assessment, peer assessment,

	End of topic assessment	**End of term assessment**	End of topic assessment	**February PPE**	End of topic assessment	**End of KS3 PPE**
Cross curricular opportunities	Literacy, RM, RE, Citizenship, Technology	Literacy, Technology , PE	Literacy, Technology, Geography	Literacy, Geography, Citizenship, RM, Technology	Literacy, PE, Technology, Music, Citizenship	Literacy, Technology, PE, Geography, Art
	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