

### Curriculum Plans – Key Stage 3 Year 9 Science

Please find below a detailed outline of the curriculum covered in Science through Year 9 in Key Stage 3.  
**Year 9**

	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2
<b>Topics</b>	<p>Working Scientifically: <b>Introduction to lab safety and equipment- Practical assessment</b></p> <p>Biology: <b>Photosynthesis and The Carbon Cycle- Reactants, products and impact of photosynthesis</b></p>	<p><b>Chemistry: Properties of Materials- Groups of the Periodic Table and Bonding</b></p> <p>Physics: <b>Forces and Energy- Conservation of energy, heating and cooling</b></p>	<p>Working Scientifically: <b>Data Analysis and Critical Thinking- Practical assessment</b></p> <p>Biology: <b>Maintaining Life and Homeostasis- Internal environment and mass transport in plants and humans</b></p>	<p><b>Chemistry: Reactivity- Reactivity Series and Displacement Reactions</b></p> <p>Physics: <b>Sound and Space- Variation in sound, structure of the earth and formation of nebulae.</b></p>	<p>Biology: <b>Genes and Inheritance- Genetics, variation and natural selection</b></p> <p>Chemistry: <b>Rates of Reactions- Factors affecting Rate of Reaction</b></p>	<p>Physics: <b>Electricity- Series and Parallel, Potential Difference, Current and Resistance.</b></p>
<b>Assessment</b>	EoU assessment and practical assessment focusing on Health and Safety	EoU assessment fact file on trends in groups of the periodic table.	EoU assessment and practical assessment focusing on conclusions and evaluations	EoU assessment and formal debate	EoU assessment and practical assessment focusing on data collection and graph work	EoU assessment  End of year Assessments
<b>Support Materials</b>	Cambridge Lower Secondary Learner and Work book. Facilities and equipment for practical experiments. Specific topics will have a “foundation week” where we review prerequisite knowledge to the unit.					
<b>Extension (Stretch/Challenge)</b>	Application of context, sneak peaks and GCSE content, reflection and improvement opportunity, responding to feedback, self-evaluation and assessment question level analysis.					



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