



## Curriculum Plans – Key Stage 4 Chemistry

Please find below a detailed outline of the curriculum covered in Chemistry through Year 11 in Key Stage 4.

### Year 11

Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7
<b>How far? How fast?</b> (Unit 7) <ul style="list-style-type: none"> <li>• Rates of reaction</li> <li>• Catalysts</li> <li>• Photochemical reactions</li> <li>• Reversible reactions and chemical equilibria</li> </ul>	<b>Patterns and Properties of Metals</b> (Unit 8) <ul style="list-style-type: none"> <li>• The alkali metals</li> <li>• Aluminium</li> <li>• The transition elements</li> <li>• The reactivity of metals</li> <li>• Electrical cells and energy</li> </ul>	<b>Industrial Inorganic Chemistry</b> (Unit 9) <ul style="list-style-type: none"> <li>• The extraction of metals by carbon reduction</li> <li>• The extraction of metals by electrolysis</li> <li>• Ammonia and fertilisers</li> <li>• Sulfur and sulfuric acid</li> <li>• The chlor-alkali industry</li> <li>• Limestone</li> <li>• The economics of chemical industry</li> </ul>	<b>Organic Chemistry</b> (Unit 10) <ul style="list-style-type: none"> <li>• The unique properties of carbon</li> <li>• Alkanes</li> <li>• Alkenes</li> <li>• Hydrocarbon structure and isomerism</li> <li>• Chemical reactions of the alkanes</li> <li>• Chemical reactions of alkenes</li> <li>• Alcohols</li> <li>• The reactions of ethanol</li> <li>• Organic acids and esters</li> </ul>	<b>Petrochemicals and Polymers</b> (Unit 11) <ul style="list-style-type: none"> <li>• Petroleum</li> <li>• Alternative fuels and energy sources</li> <li>• Addition polymerisation</li> <li>• Condensation polymerisation</li> </ul> <b>Chemical analysis and Investigation</b> (Unit 12) <ul style="list-style-type: none"> <li>• Inorganic analysis</li> <li>• Organic analysis</li> </ul> <b>MOCK</b>  <b>Intervention</b>	<b>Revision</b>  <b>Past papers practice</b>  <b>Exam technique</b>	
End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	<b>Internal Mock Cambridge IGCSE Exam</b>	Self-Assessment and Intervention	Self-Assessment And Exam Skills	<b>External Cambridge IGCSE Exam</b>
		Progress Data for Autumn Report	<b>Summative Assessment</b>	Mock Exam Data for Spring Report		<b>IGCSE Results</b>
<b>Autumn</b>			<b>Spring</b>		<b>Summer</b>	