



## KS4 Curriculum Overview - Chemistry

Your child will learn about the properties and reactions of different substances, develop their knowledge, skills and understanding of a range of practical techniques during each half term.

Term	Year 10	Year 11
Autumn 1	<ul style="list-style-type: none"> <li>Reactivity series</li> <li>Structure, bonding &amp; properties</li> </ul>	<ul style="list-style-type: none"> <li>Electrolysis of aqueous solutions &amp; Cells</li> <li>Mock Paper 1</li> </ul>
Autumn 2	<ul style="list-style-type: none"> <li>Energy changes</li> <li>Introduction to quantitative chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Rates of reaction</li> <li>Reversible reactions</li> </ul>
Spring 1	<ul style="list-style-type: none"> <li>Reactions of metals and redox</li> <li>Reactions of acids</li> </ul>	<ul style="list-style-type: none"> <li>Chemical analysis</li> <li>Mock Paper 2</li> </ul>
Spring 2	<ul style="list-style-type: none"> <li>Concentration and reacting masses</li> </ul>	<ul style="list-style-type: none"> <li>Chemical analysis</li> <li>Exam skills</li> </ul>
Summer 1	<ul style="list-style-type: none"> <li>Electrolysis of aqueous solutions &amp; Cells</li> </ul>	<ul style="list-style-type: none"> <li>Revision</li> </ul>
Summer 2	<ul style="list-style-type: none"> <li>Exam skills</li> </ul>	GCSE Public Examinations

Through the study of chemistry your child will be expected to develop the following knowledge, skills and understanding:

Practical skills	Analytical skills	Real-life chemistry
<ul style="list-style-type: none"> <li>A range of required practical activities using specialist chemistry equipment</li> <li>Independent and team work skills developed through practical and other lesson activities.</li> </ul>	<ul style="list-style-type: none"> <li>Apply your knowledge of structure, bonding and chemical reactions to explain trends in the periodic table and reactivity series.</li> </ul>	<ul style="list-style-type: none"> <li>Appreciate the role of chemistry in developing materials for everyday use</li> <li>Appreciate the impact of our use of chemicals on the environment.</li> </ul>

Parents can support their child by checking [Google Classroom](#), testing pupils on key knowledge from [Cognito Youtube videos](#), [BBC bitesize](#), and create a parent account on [Seneca](#) to track student progress through mini tests and quizzes.