



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"> Structure, bonding & properties 	<ul style="list-style-type: none"> Crude oil & hydrocarbons Alkenes, alcohols & polymers
Autumn 2	<ul style="list-style-type: none"> Introduction to quantitative chemistry Redox reactions 	<ul style="list-style-type: none"> Rates & equilibria
Spring 1	<ul style="list-style-type: none"> Reactions of acids Concentration & reacting masses 	<ul style="list-style-type: none"> Resources
Spring 2	<ul style="list-style-type: none"> Organic chemistry 	<ul style="list-style-type: none"> Materials
Summer 1	<ul style="list-style-type: none"> Resources 	<ul style="list-style-type: none"> Exam skills Revision
Summer 2	<ul style="list-style-type: none"> Atmospheric chemistry 	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"> A range of required practical activities using specialist chemistry equipment Independent and team work skills developed through practical and other lesson activities. 	<ul style="list-style-type: none"> Apply your knowledge of structure, bonding and chemical reactions to explain trends in the periodic table and reactivity series. 	<ul style="list-style-type: none"> Appreciate the role of chemistry in developing materials for everyday use Appreciate the impact of our use of chemicals on the environment.

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.