



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	- Atomic structure (Year 9 Summer 2) - The periodic table (Year 9 Summer 2) - Reactivity series - Structure, bonding & properties	Organic chemistry
Autumn 2	- Energy changes - Introduction to quantitative chemistry	- Atmospheric chemistry - Resources
Spring 1	- Reactions of metals and redox - Reactions of acids	- Rates of reaction - Reversible reactions
Spring 2	Concentration and reacting masses	Chemical analysis
Summer 1	Electrolysis of aqueous solutions & cells	Revision
Summer 2	Exam skills	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
- A range of required practical activities using specialist chemistry equipment - Independent and teamwork skills developed through practical and other lesson activities.	Apply your knowledge of structure, bonding and chemical reactions to explain trends in the periodic table and reactivity series.	- 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.