



Chemistry



What our students say:

“Chemistry is great! It combines organic chemistry, maths and modern techniques in Chemistry. It develops your understanding of the world and how processes work and fit together. I would definitely recommend studying Chemistry.”

Entry Requirements:

5 GCSEs graded 9 – 4, including English (grade 4+) and Mathematics (grade 5+). Grade 5 in Combined Science or in Chemistry plus one other Science is also required.

Exam Board and Specification Link:

OCR A Level Chemistry A, H032, H432: [OCR Chemistry specification](#)

What skills will you develop?

- An interesting and challenging experience prompts you to link key chemical ideas and understand how they relate to each other.
- The development of transferable skills including investigating, problem solving, research, decision making, mathematical skills and analytical skills.
- Opens up a range of possibilities for further study and careers associated with the subjects.

What will you study?

Atoms, compounds, molecules and equations	Enthalpy, entropy and free energy
Amount of substance	Redox and electrode potentials
Acid–base and redox reactions	Transition elements
Electrons, bonding and structure	Organic chemistry
The periodic table and periodicity	Polymers
Group 2 and the halogens	Organic synthesis
Reaction rates and equilibrium	Analytical techniques (IR and MS)
pH and buffers	Chromatography and spectroscopy

Why study this subject?

A Level Chemistry will give you an exciting insight into the contemporary world of chemistry. It covers the key concepts of chemistry and practical skills are integrated throughout the course. This combination of academic challenge and practical focus makes the prospect of studying A Level Chemistry highly appealing. You will learn about chemistry in a range of different contexts and the impact it has on industry and many aspects of everyday life. You will learn to investigate and solve problems in a range of contexts.



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How will you be assessed?

- A total of 6 hours of examinations (2 x 2 hours 15 minutes and 1 x 1 hour 30 minutes) taken at the end of the course.
- A wide range of question types including multiple choice, short answer and extended response questions.
- The opportunity to demonstrate your knowledge of both theory and practical skills through the examinations.

Where can the subject lead?

A Level Chemistry is an excellent base for a university degree in healthcare such as medicine, pharmacy and dentistry as well as the biological sciences, physics, mathematics, pharmacology and analytical chemistry. Chemistry is also taken by many law applicants as it shows you can cope with difficult concepts. Chemistry can also complement a number of arts subjects.

A range of career opportunities including chemical, manufacturing and pharmaceutical industries and in areas such as forensics, environmental protection and healthcare. The problem solving skills are useful for many other areas, too, such as law and finance.

Contact Information

For further information about this course, contact Andrew Williams, Assistant Headteacher/Head of Science, at: awilliams@chenderit.net