

A Level Chemistry

The Course

Chemistry is not all about blowing things up, although that is included! At A Level it becomes more about how matter and energy behave and interact with each other: from molecular changes in the eye responding to light that allow you to see; to fabricating and testing compounds to produce lifesaving drugs. Chemistry remains one of the most vigorous and demanding of A Levels building skills in application of mathematics, special awareness and logical puzzles – are you up for the challenge?

The Content

Explaining the mysteries of atomic structure, using the mole, explaining electronic structures and an introduction to the quantum world, understanding bonding/structures and chemical reactions, practical chemistry – developing skills, carrying out titrations, the wonders of organic chemistry, alkanes/alkenes, developing polymers, alcohols, esters and smells in chemistry, halogenoalkanes, analysing substances, energy changes, rates of reactions, equilibrium and industry, global warming and the greenhouse effect, the ozone layer and depletion and green chemistry.

Assessment

100% examined. There is no coursework.

Subject entry requirements

GCSE Combined Science grade 6 - 6 or above or GCSE Chemistry grade 6 or above, plus GCSE Maths grade 6 or above.

Pathways/Careers

Students go on to successfully study or work in many fields, including:

Chemistry
Pharmacy
Finance

Medicine
Engineering
Accountancy

Veterinary Science
Environmental Science
Forensic

Dentistry
Teaching
Engineering