DIXONS SIXTH FORM ACADEMY

A Level Chemistry

What the course covers

A Level Chemistry is a rigorous, challenging and ultimately rewarding course that will develop your scientific skills and knowledge and lay the foundations for further study and the workplace.

Students will complete 12 essential practical activities to develop their practical skills and will be asked to apply the knowledge and understanding they learn from these experiments in their written exams. Practical-based questions will form about 15% of the total assessment.

Year 1

- Physical Chemistry including atomic structure, amount of substance, bonding, energetics, kinetics and chemical equilibria
- Inorganic Chemistry including periodicity, Group 2 the alkaline earth metals and Group 7 the halogens
- Organic Chemistry including introduction to organic chemistry, alkanes, halogen alkanes, alkenes, alcohols and organic analysis

Year 2

- Physical Chemistry including thermodynamics, rate equations, equilibrium, electrode potentials and electrochemical cells
- Inorganic Chemistry including properties of Period 3 elements and their oxides, transition metals, reactions of ions in aqueous solution
- Organic Chemistry including optical isomerism, aldehydes and ketones, carboxylic acids and derivatives, aromatic chemistry, amines, polymers, amino acids, proteins and DNA, organic synthesis, NMR spectroscopy and chromatography

The complete specification can be viewed on the AQA website. www.aqa.org.uk

What students can do with this course

An A Level in Chemistry is a highly respected and useful qualification for higher education and employment in a wide range of areas. Apart from studying chemistry at University in more detail, many other avenues will be open to you; engineering, law, journalism, veterinary science, accountancy, teaching, medicine, medical chemistry, biochemistry, colour chemistry, food science and forensic science, to name but a few.

How this course is assessed

This course is assessed 100% by examination at the end of the course.

Students sit three two hour examinations, each of which tests elements of organic, inorganic and practical chemistry.

Entry requirements

All our course entry requirements are detailed in the Entry Requirements document located in the admissions section of our website.