

Why study Chemistry?

An A Level in Chemistry will provide you with a deeper understanding into the mechanisms of chemical reactions. You will develop knowledge in how substances interact and carry out detailed calculations to enable preparation of formulations for use in medical and industrial applications. You will become confident in a range of analytical and practical skills to prepare you fully for future scientific study or career.

What skills are required?

Students studying Chemistry should be logical thinkers with an interest in explaining how things work. You will be required to have and develop good mathematical skills, hence the need for a good GCSE pass in Mathematics.

Students will be expected to carry out background reading and develop research skills to extract relevant information from a variety of sources.

You will be confident in practical work and become skilled in the use of a wide range of apparatus. Observation skills will be enhanced in order to add full explanations of results linked to relevant scientific theory.

Course Content

Students will also undertake a number of required practical's to enable endorsement of practical skills.

In the second year of the course students will study:

- Physical Chemistry including thermodynamics, acids and bases, and electrochemistry;
- Inorganic Chemistry including Period 3 elements and Transition Metals;
- Organic Chemistry including Aromatic Chemistry and Organic Synthesis.

In the second year students will study:

- Physical Chemistry (including Thermodynamics and Electrochemistry);
- Inorganic Chemistry (including Period 3 and Transition Metals);
- Organic Chemistry (including Aromatic Chemistry and Organic Synthesis).

Further required practicals will be undertaken to enable full practical endorsement to be awarded.

How it will be assessed:

Paper 1	Paper 2	Paper 3
Inorganic and ½ Physical Chemistry topics	Organic and ½ Physical Chemistry topics	Practical skills and any other topics
2 hours 105 marks 35% of A level	2 hours 105 marks 35% of A level	2 hours 90 marks 30% of A level

Progression

A Level Chemistry is a long established and well respected qualification. The course will provide opportunity to study Chemistry or related Chemical Sciences at University or enter careers in a wide range of scientific jobs, including Medicine, Pharmacy, Pharmaceutical Research, Forensics, Chemical Engineering and Biochemistry. It also enables work in Food and Environmental Sciences.

Staff

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