



Chemistry



From investigating how one substance can be changed drastically into another, to researching a new wonder drug to save millions of lives, the opportunities that chemistry provides are endless.

Exam Board:

OCR

Components:

Module 1 – Development of practical skills in chemistry

Module 2 – Foundations in chemistry

Module 3 – Periodic table and energy

Module 4 – Core organic chemistry

Module 5 – Physical chemistry and transition elements

Module 6 – Organic chemistry and analysis

Assessment:

Paper 1:

Periodic table, elements and physical chemistry

100 marks

2 hour 15 minutes

Paper 2:

Synthesis and analytical techniques

100 marks

2 hour 15 minutes

Paper 3:

Unified chemistry

70 marks

1 hour 30 minutes

Summary

The specification is divided into chemical topics, each containing different key concepts of chemistry. Once the key features of a chemical topic have been developed, applications are considered.

Knowledge and understanding of key concepts and important links between different areas of chemistry are developed. The teaching of practical skills are integrated and assessed throughout the year allowing the practical skills of the student to be developed.

During year 1, building on the foundations of GCSE Chemistry and extending this to slightly more demanding applications are delivered. In year 2, these topics are pushed even further applying mathematical concepts to the theory and making links between the topics across the whole course.

Practical skills are developed using different techniques enabling the student to improve their skills and ability handling specialist equipment, following complex procedures and using tools to manipulate the data.

Looking Ahead

Studying an A-level Chemistry related degree at university gives you all sorts of exciting career options, including Analytical chemist, Chemical engineer, Clinical biochemist, Pharmacologist, Doctor, Research scientist (physical sciences), Toxicologist, Chartered certified accountant, Environmental consultant, Higher Patent attorney and a Science writer.

Link Subjects

Chemistry complements a range of subjects including Biology, Physics, Geography and Maths.

Key Skills Developed

Literacy
Maths

Student View

"A-level chemistry is a challenging subject but satisfying when you work hard and do well."

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