

CHEMISTRY



Examination Board: OCR A **Qualification:** A level

Teacher Contact: Mrs Lewis

Entry Requirements:

A grade B in Mathematics and a grade B in GCSE Chemistry or Additional Science.

What will I study?

The A level course is comprised of 6 units.

Module 1 – Development of practical skills

Skills of planning, implementing, analysis and evaluation.

Module 2 – Foundations in chemistry

This unit includes the structure of the atom, the importance of atomic masses, formulae and equations and chemical bonding and structure.

Module 3 – Periodic table and energy

This unit includes the periodic table, qualitative analysis, enthalpy change and reaction rates.

Module 4 – Core Organic

This unit includes the basic concepts of organic chemistry, hydrocarbons, alcohols, haloalkanes, the synthesis of organic compounds and analytical techniques.

Module 5 – Physical Chemistry and Transition Elements

This module includes reaction rates and equilibrium, entropy, enthalpy, electrode potentials and transition elements.

Module 6 – Organic Chemistry and Analysis

This module includes the study of aromatic, carbonyl and nitrogen compounds, as well as acids and esters. In addition, organic synthesis, chromatography and nuclear magnetic resonance will be studied.

How will I be assessed?

You will be assessed by written examinations covering all topics.

Am I suited to this course?

You would be well-suited to studying Chemistry at A level if you:

- enjoyed studying GCSE Science and are motivated to take your understanding much further
- enjoy a challenge and are willing to persevere
- can apply your knowledge to unfamiliar situations
- enjoy the practical element to Science
- are competent and confident at Mathematics

What other subjects does it complement?

Chemistry is an excellent course to take with Biology, Physics, Mathematics and/or Geography. If you are considering Biological Sciences, Medicine or Veterinary Science at university, Chemistry is usually a requirement.

Where can it lead?

Chemistry is a passport to a host of careers including the most obvious Medicine, Veterinary Science, Teaching, Engineering, Physiotherapy and Psychology. Recognised as a sign of high academic achievement, it is accepted as a valuable qualification for all science-based courses at university and being essential in some cases.

What has been said?

'I've enjoyed the Chemistry course a lot. I had everything I needed in lessons and applied revision activities we did to my other subjects.' – Year 13 student.

