

# Chemistry - A Level

Contact Person: Mr M Early

## Course Outline:

Chemistry is for you if...

You want impressive skills to show off to future employers, e.g data handling, analysis, problem solving, collaborative working.

You are not afraid to get stuck on new concept and will enjoy having to work them out.

You don't like essay writing—but you do enjoy methodically working through calculations.

You are unsure what to do but enjoy chemistry and would like to keep your options open.

### Year 1

Module 1: Development of practical skills in chemistry.

Module 2: Foundations in chemistry:

- Atoms, ions and compounds, amount of substance, acids and redox, electrons and bonding & shapes of molecules

Module 3: Periodic Table and Energy:

- Periodicity, reactivity trends, enthalpy, reaction rates and equilibrium.

Module 4: Core organic chemistry and analysis:

- Basic concepts, alkanes, alkenes, alcohols, haloalkanes, organic synthesis and spectroscopy.

### Year 2

Module 5: Physical chemistry and transition elements:

Module 6: Organic chemistry and analysis.

## Skills/Aptitudes Developed/Required:

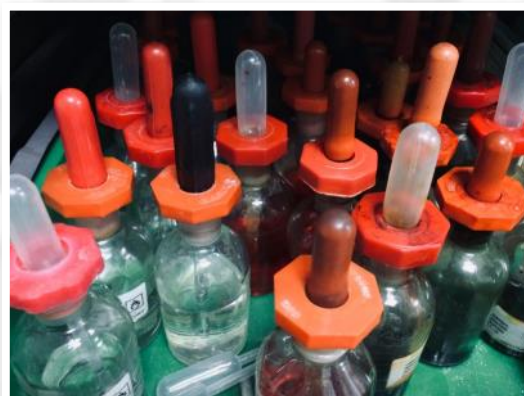
Logical thought, problem solving, precision and accuracy.

Conceptual thought both required and developed.

Students require a 6 in Triple Science (Chemistry) or a 6/6 in Combined Science.

## Additional Considerations:

Students will also require a 6 in GCSE Mathematics.



## Progression Post-18

Previous A Level Chemistry students have gone on to study a range of scientific and non-scientific courses at university. These include: medicine, dentistry, mathematics, biochemistry, engineering, architecture, languages, music, economics and veterinary sciences.

A Level Chemistry is a required A Level for most medicine, dentistry and veterinary courses.