



### **What the course will involve -**

The AS topics will build upon the knowledge from GCSE. The topics covered include: atomic structure, bonding, rates of reactions, energetics, redox reactions, extraction of metals, alkanes, alkenes and organic reactions.

The A2 units build on the wide foundation of knowledge covered at AS level. Topics covered at A2 include acids and bases, aromatic chemistry, amino acids, polymers, organic synthesis and analysis, structural determination, thermodynamics, transition metals and reactions of inorganic compounds in aqueous solution.

The AS units are:

- Unit 1 – Foundation Chemistry
- Unit 2 – Chemistry In Action
- Unit 3 – Investigative and practical skills

The A2 units are:

- Unit 4 – Kinetics, Equilibria and Organic Chemistry
- Unit 5 – Energetics, Redox and Inorganic Chemistry
- Unit 6 – Investigative and practical skills

## **Exam Board: AQA**

## Assessment -

The course is a modular course and AS Chemistry is assessed by the completion of two written papers and an ISA, which is similar to the one at GCSE. Both written papers will be taken in June.

The assessment of A2 Chemistry is similar to that at AS Level, with two written papers and an ISA.

## What the course can lead to -

Chemistry is seen as the foundation for all sciences. The course leads onto studying Chemistry at University degree level or branches of chemistry such as chemical engineering, biochemistry, environmental sciences, medicine, veterinary science, dentistry, forensic science, pharmacology and many others. The logical approach to studying chemistry has also led students into non-chemistry related fields such as law, accountancy and being pilots.



## Entry Requirements -

Grade B in Mathematics. Pupils who have studied Core/Additional Science need to have a grade B in each of the courses with an overall grade B in the Chemistry sections of the paper. Pupils who have studied Separate Sciences need to have passed all 3, with two of them having the minimum of a grade B (one of which is Chemistry).