

# Chemistry A Level

## Who is the course for?

Chemistry offers you the chance to extend your GCSE knowledge and really explore the subject through developing a logical approach to problem solving as well as developing your ability to understand abstract principles.

The course encourages imaginative and critical thinking and develops your skills in laboratory procedures. It is in many ways a fundamental science and so highly valued by many universities and employers because of the skill set that you acquire.

Chemistry combines well with other science and with mathematics.

## What does the course involve?

The course is designed to provide you with a broad understanding of chemical processes in a variety of different contexts. Class discussion will give you an understanding of the theory, but you will also regularly be putting the theory into practice by doing practical work in our excellent laboratory facilities.

## Modules include:

**Foundations in chemistry**, which picks up your GCSE knowledge and starts to get you to think more deeply about chemistry and what you thought you knew about it.

**The periodic table and energy**, which looks at patterns seen in elements and compounds and introduces you to chemical energetics.

**Core organic chemistry**, which starts an in-depth study of the world of polymers and common organic products.

**Physical chemistry and the transition elements**, which focuses on predictive chemistry and the chemistry of this particular group of elements.

**Organic chemistry and analysis**, which takes you deeper into the world of industrial chemistry looking at pharmaceutical synthesis, dyes and food additives as well as analytical techniques

## Assessment Methods

A level Chemistry is assessed by three exams at the end of Year 13, which make up 100% of the qualification.

In addition, there is also be a practical endorsement

## Progression Options

As well as pursuing a chemistry degree in its own right, chemistry is essential for medicine, veterinary medicine, pharmacy, pharmacology and environmental science. Students who study chemistry go on to study a variety of degrees at university including biochemistry, natural sciences, biotechnology and various engineering degrees.

Chemistry is a qualification that is highly sought after in today's world as it shows you have developed a wide breadth of skills and knowledge that are valuable to employers.

## Awarding Body

OCR