

# Chemistry



## What our students say:

“I want to study medicine, so chemistry was a natural choice. The A Level was definitely really challenging, but teachers always went the extra mile to help me understand key concepts.”

## Why this course is right for you:

Everything in the universe, from you to the stars, is made of 92 naturally-occurring elements. To understand chemistry is to understand the universe. Countless aspects of our lives are interconnected due to chemistry, and chemists explore the world at its molecular level.

As an A Level subject, this course fosters scientific curiosity, logic and creative problem-solving, working in the lab in an experimental capacity.

If you see a future in biochemistry, medicine, nursing, environmental sciences or forensic science, study chemistry. However, chemists also go on to have a huge range of careers outside STEM, from marketing to law and politics.

## What you need to know:

**Exam Board: OCR A**

**Who to speak to: Mr Hake**

### Topics Covered:

- Topic 1 - Practical Skills in Chemistry
- Topic 2 - Foundations in Chemistry
- Topic 3 - Periodic table and energy
- Topic 4 - Core organic Chemistry
- Topic 5 - Physical Chemistry and transition elements
- Topic 5 - Organic Chemistry and analysis

### Assessment:

100% written examination in year 13

#### Year 1:

- Early Hurdle
- Module tests
- Paper 1 - Breadth in Chemistry (70 marks)
- Paper 2- Depth in Chemistry (70 marks)

#### Year 2:

- Module tests
- Paper 1 - Periodic table, elements and physical chemistry (100 marks)
- Paper 2 - Synthesis and analytical techniques (100 marks)
- Paper 3 - Unified Chemistry (70 marks)

### Entry Requirements:

- Grade 6 in GCSE Chemistry or grade 6, 6 in Combined Science required
- Grade 6 GCSE Maths required
- Grade 7 in GCSE Chemistry or grade 7, 7 in Combined Science desirable

### Co-curricular/trips:

Chemistry Olympiad, STEM Smart (Cambridge University)