



## A Level Chemistry - Course Information

### Exam board – OCR syllabus Chemistry A

#### What is A Level Chemistry?

A level Chemistry A will give you an exciting insight into the contemporary world of chemistry. It covers the key concepts of chemistry and practical skills are integrated throughout the course. You will learn about chemistry in a range of different contexts and the impact it has on industry and many aspects of everyday life.

#### What does the course involve?

- Develop theoretical and practical chemistry skills, knowledge and understanding.
- A flexible approach where the specification is divided into topics each covering different key concepts of chemistry.
- Practical skills integrated with the theoretical topics

**Entry Requirements:** GCSE Combined Science Grade 7 or Triple Chemistry Grade 7 or above

GCSE English Grade 5 & Mathematics Grade 7 or above

#### What themes are studied?

- Module 1 – Development of practical skills in chemistry
- Module 2 – Foundations in chemistry
- Module 3 – Periodic table and energy
- Module 4 – Core organic chemistry
- Module 5 – Physical chemistry and transition elements
- Module 6 – Organic chemistry and analysis

#### How is it assessed?

Assessment is through **three written exams** at the end of Year 13, each testing knowledge, data analysis, and evaluation skills across all six modules.

Paper 1: Periodic table, elements and physical chemistry - written exam: 2 hours 15 mins - 37% of A Level (100 marks)
Paper 2: Synthesis and analytical techniques - written exam: 2 hours 15 mins - 37% of A Level (100 marks)
Paper 3: Unified chemistry - written exam: 1 hour 30 mins - 26% of A Level (70 marks)
Practical endorsement in chemistry – non examined assessment

#### What are lessons like?

A Level OCR Chemistry lessons focus on understanding chemical principles through a mix of theory, practical work and problem-solving. Students study physical, inorganic and organic chemistry covering topics like bonding, energetics, kinetics, equilibrium, redox, periodic trends and mechanisms. Lessons often include demonstrations, calculations, model building and real world applications. Over the two years, students build strong mathematical, analytical and laboratory skills to prepare for the final written exams and the practical endorsement.

#### Where Can Chemistry Take You?

A Level OCR Chemistry provides a strong foundation for a wide range of science and technical pathways, leading to university courses such as chemistry, chemical engineering, medicine, pharmacy, biochemistry, forensic science and environmental science. It is highly valued for the analytical, mathematical and laboratory skills it develops, opening doors to careers in pharmaceuticals, research, engineering, forensics, materials science and quality control, as well as scientific and laboratory based apprenticeships in industry and healthcare.

**For more information about the course, please see Mr Boateng**