

Shoeburyness High School

Sixth Form Subject Information

CHEMISTRY

A Level



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Chemistry A Level

- Chemistry is a fascinating subject, which ranges from understanding the way atoms and molecules behave within the human body to looking at the way chemicals are synthesised on an industrial level.
- Chemists are vital to many industries such as the beauty and cosmetics industries and the petrochemical industries.



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Chemistry A Level

- Chemistry can be used to help solve some of the Worlds biggest current issues:
 - Climate change
 - Plastic pollution
 - Vaccine manufacture in the fight against COVID as well as many other diseases



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Subject Information

Chemistry can be split into three main disciplines:



- The Edexcel A Level Chemistry course is divided into 19 topics which cover these three areas and include a wide range of practical activities to enhance the learning experience and build a good foundation of laboratory skills.



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Subject Information

In year 12, many of the GCSE concepts taught are reviewed and built upon including:

- Atomic structure
- Chemical bonding
- Chemical calculations
- Organic chemistry
- Redox
- Rates of reaction
- Equilibrium



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Subject Information

In year 13, many of the concepts from year 12 are built upon even further and there are also some new elements including:

- Transition metal chemistry
- Analytical chemistry and Spectroscopy
- Entropy
- Organic synthesis



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Chemistry A Level

Subject Information

Exam board: Edexcel

Exam structure:

- Paper 1 (30%): 1 hour 45 minutes **(90 marks)**
- Paper 2 (30%): 1 hour 45 minutes **(90 marks)**
- Paper 3 (40%): 2 hours 30 minutes **(120 marks)**



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Chemistry A-Level

Entry requirements

Pathway 2 entry requirements: 5 GCSEs at Grade 5 and above

Subject entry requirements:

- GCSE Science (higher tier): **minimum** Grade 5-5 or
- GCSE Chemistry (higher tier): **minimum** Grade 5 and
- GCSE Maths (higher tier): **minimum** grade 5



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Chemistry A Level

Career Progression

A-Level Chemistry is considered essential by universities taking on candidates for the following courses:

- Chemistry and other science disciplines
- Medicine / Dentistry
- Veterinary Science

Many employers and universities also look very favourably on chemistry A Level for lots of other courses and careers as it demonstrates discipline, high level thinking and problem solving.



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Chemistry A Level

University progression

All 10 of the students on the A Level Chemistry course last year, have gone to **University** and are studying a course with a science basis including Sammie Mundy, who earned a place studying **Medicine** at the University of Exeter. Other courses include **Forensic Science, Nursing and Biomedical Science.**

In previous years, Luke went on to study **Chemistry** at the University of Loughborough and Brandon earned a place at the prestigious University of Bristol to study **Medicine.**



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Chemistry A Level

Contact Information

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