



Woolwich Polytechnic  
Sixth Form

# Chemistry A Level

"I'm so glad I came to the Poly! The teachers are really supportive and break things down to make them easier to understand. I'm now applying to study Chemistry at University and I couldn't be happier."

Year 13 student

## Have you ever wondered?

Why does ice float? Why do people put salt on icy roads? Why do onions make you cry? How does aspirin stop pain in your body? Can you turn lead into gold? Study A Level Chemistry to find out the answers!

## Key Skills

Emphasis throughout the course is on developing knowledge, competence and confidence in practical skills and problem solving.

## Where can A Level Chemistry take me?

• A Level Chemistry A is an excellent base for a university degree in healthcare such as medicine, pharmacy and dentistry as well as the biological sciences, physics, mathematics, pharmacology and analytical chemistry. Chemistry is also taken by many law applicants as it shows you can cope with difficult concepts. Chemistry can also complement a number of arts subjects.

• A range of career opportunities including chemical, manufacturing and pharmaceutical industries and in areas such as forensics, environmental protection and healthcare. The problem-solving skills are useful for many other areas, too, such as law and finance.

## Which awarding body is the course validated by?

OCR

## Entry Requirements

GCSE Chemistry grade 6 or Additional Science Grade 6 in Chemistry unit exam

### What's included?

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| <ul style="list-style-type: none"><li>• Atoms, compounds, molecules and equations.</li><li>• Amount of substance</li><li>• Acid-base and redox reactions</li><li>• Electrons, bonding and structure</li><li>• The periodic table and periodicity</li><li>• Group 2 and the halogens</li><li>• Reaction rates and equilibrium</li><li>• pH and buffers</li></ul> | <ul style="list-style-type: none"><li>• Enthalpy, entropy and free energy</li><li>• Redox and electrode potentials</li><li>• Transition elements</li><li>• Organic chemistry</li><li>• Polymers</li><li>• Organic Synthesis</li><li>• Analytical techniques (IR and MS)</li><li>• Chromatography and spectroscopy (NMR)</li></ul> |
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## Method of assessment

AS Level: 2 x 1hr 30mins examinations

- Breadth in Chemistry (50%)
- Depth in Chemistry (50%)

A Level: 2 x 2hr 15mins examinations & 1 x 1hr 30mins examinations

- Periodic table, elements and physical chemistry (37%)
- Synthesis and analytical techniques (37%)
- Unified Chemistry (26%)

A wide range of question types including: multiple choice, short answer and extended response questions.

## Are you...

Wanting to be a doctor?

Wanting to work in the chemical industry?

Wanting to understand how chemistry can impact the environment?

Interested in the world around you?

A problem solver?

Keenly interested in science?

Keen on practical work?

Studying other science A Levels or Maths?

**...then choose A level Chemistry.**