



# Have you ever wondered...

- What is in a medicine?
- What new fuels do we need to develop?
- Why do onions make you cry?
- How is chemistry linked to art?
- Can you turn lead into gold?

**Study A Level Chemistry B (Salters) to find out the answers.**

## A Level Chemistry B (Salters)

A Level Chemistry B will give you an exciting insight into the contemporary world of chemistry. It covers a range of different contexts, conveying the excitement of contemporary chemistry. This combination of academic challenge, relevant context and practical focus makes the prospect of studying A level Chemistry B highly appealing.

You will learn about chemistry in a range of different contexts and the impact it has on industry and many aspects of everyday life. You will learn to investigate and solve problems in a range of contexts.

### Key features

- Simple straightforward assessment through examinations.
- Based on key contexts relevant to chemistry.
- Opportunities to build practical skills through a range of experiments and investigations.

**A LEVEL  
CHEMISTRY B (SALTERS)**

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Oxford Cambridge and RSA

## What's included

Elements of life  
Developing fuels  
Elements from the sea  
The ozone story  
What's in a medicine?  
The chemical industry  
Polymers and life  
Oceans  
Developing metals  
Colour by design

Emphasis throughout the course is on developing knowledge, competence and confidence in practical skills and problem solving. You will learn how society makes decisions about scientific issues and how sciences contribute to the success of the economy and society.

## Thought provoking questions

- What new fuels can be developed to replace fossil fuels?
- How is nitrogen similar to arsenic?
- How can spectroscopy be used to solve a crime?
- How are medicines developed?
- What is the pH of blood and how does it act as a buffer?
- How do the shape and bonding in a molecule affect its smell?

## How will you be assessed?

- Total of 6 hours of examinations (2 x 2 hours 15 minutes and 1 x 1 hour 30 minutes) taken at the end of the course.
- A wide range of question types including multiple choice, short answer and extended response questions.
- Opportunity to demonstrate your knowledge of both theory and practical skills through the examinations.

## To achieve a Practical Endorsement you will be expected through a range of experiments to display your competency in:

- Following procedures
- Applying an investigative approach when using instruments and equipment
- Working safely
- Making and recording observations
- Researching, referencing and reporting.

## What are the benefits?

- An interesting and challenging experience to link key chemical ideas and understand how they relate to each other.
- The development of transferable skills including investigating, problem solving, research, decision making, mathematical skills and analytical skills.
- Opens up a range of possibilities for Further study and careers associated with the subject.

## 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?

## Where can A Level Chemistry B take me?

- A Level Chemistry B is an excellent base for a university degree in healthcare such as medicine, pharmacy and dentistry as well as chemistry, 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.

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