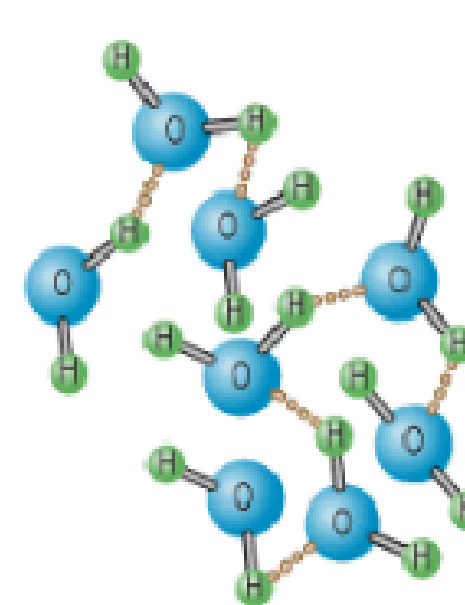


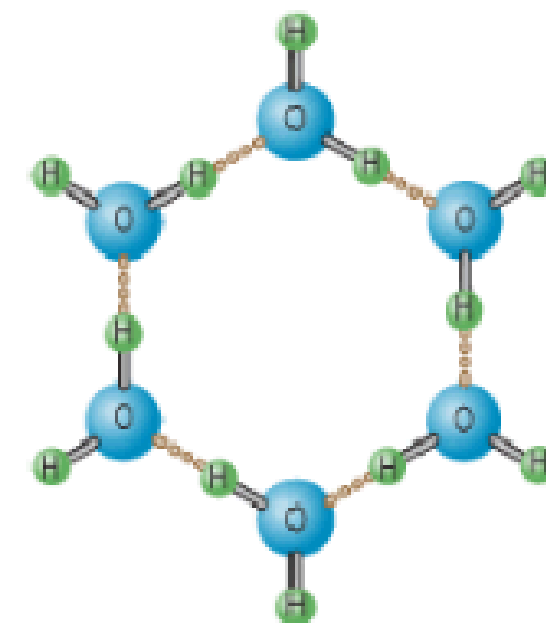
Have you ever wondered...

- 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?

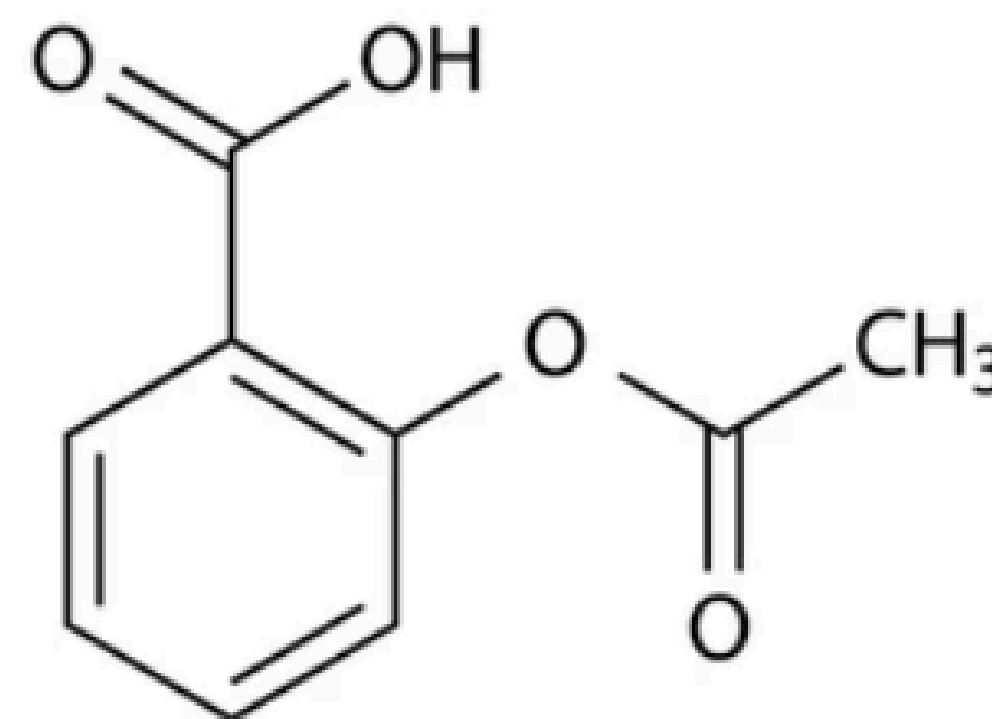
Study A Level Chemistry to find out the answers.



Structure of molecules of water



Structure of molecules of ice

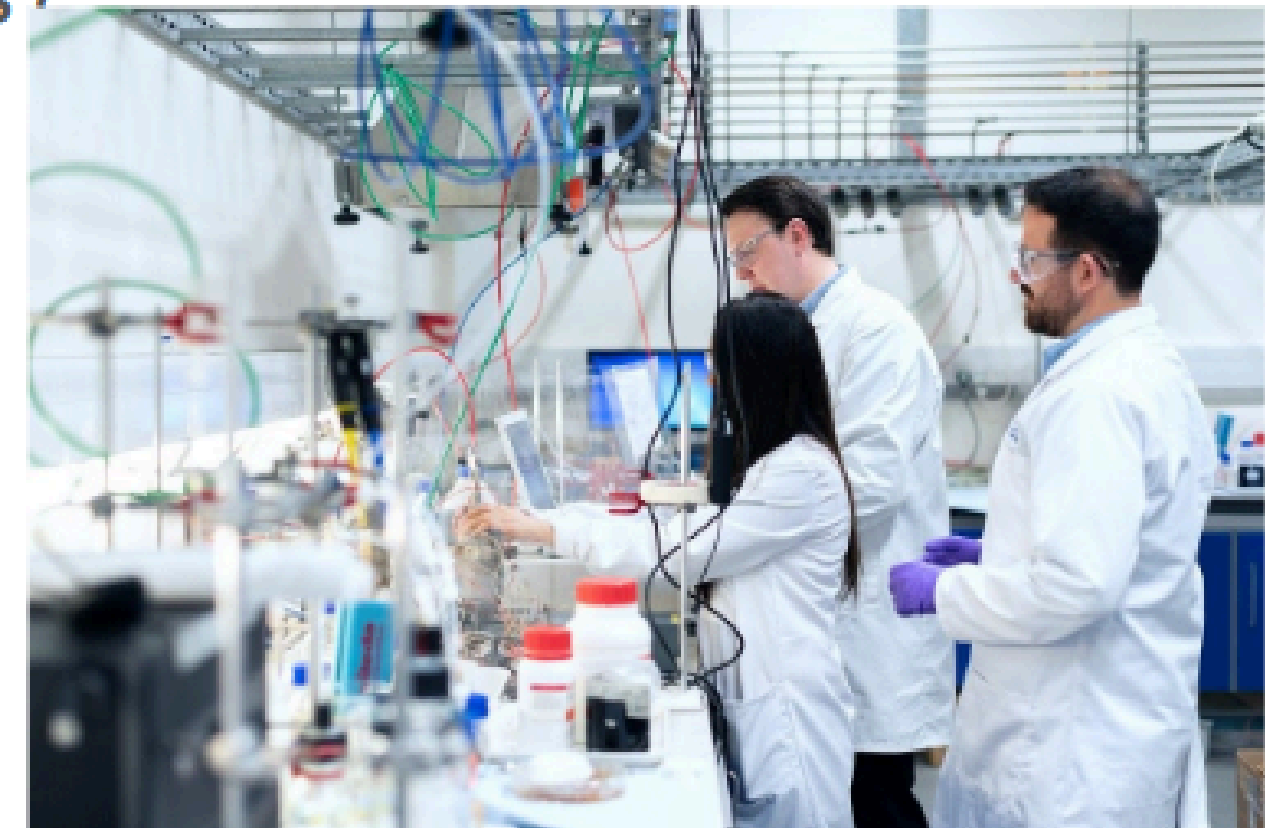


Acetylsalicylic acid



Are you someone who...

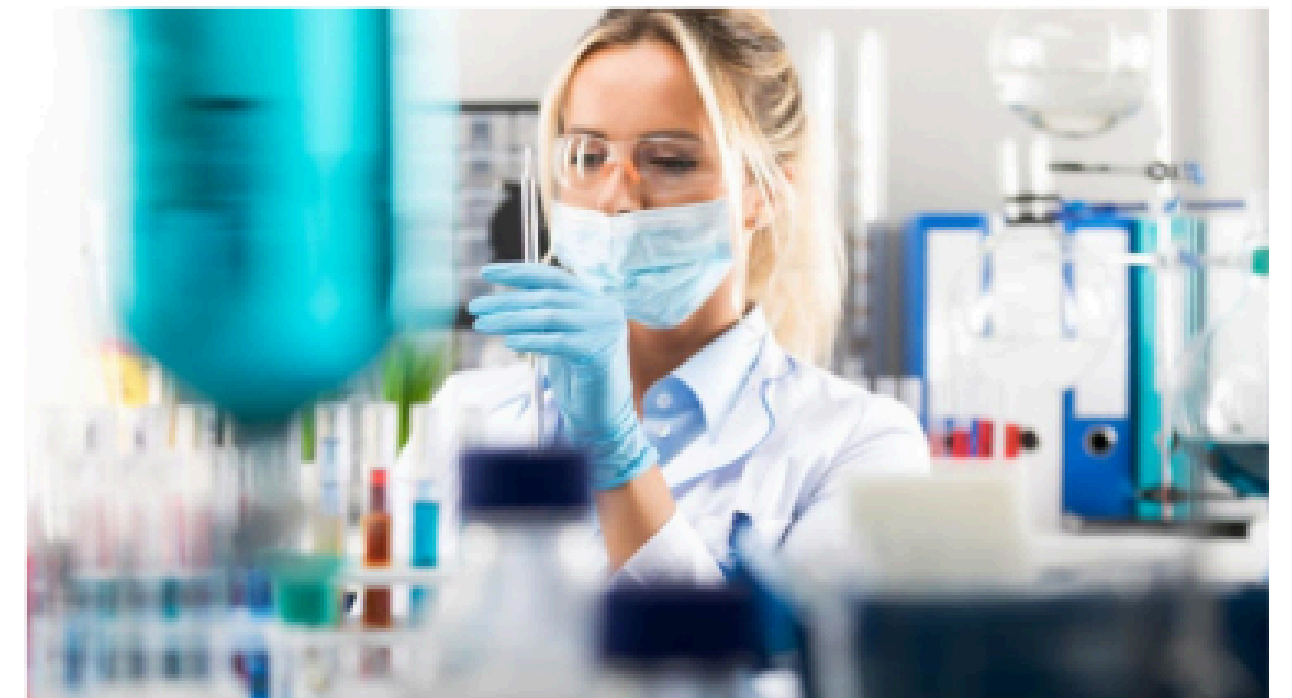
- Wants to be a doctor?
- Wants to work in the chemical industry?
- Wants to understand how chemistry can impact the environment?
- Is interested in the world around you?
- Is a problem solver?
- Is keenly interested in science?
- Is keen on practical work?
- Is planning to study other science A Levels or Maths?



Why study Chemistry?

A Level Chemistry will give you an exciting insight into the contemporary world of chemistry.

- Academic challenge
- Practical focus
- Impact on industry and many aspects of everyday life.
- Investigate and solve problems in a range of contexts.



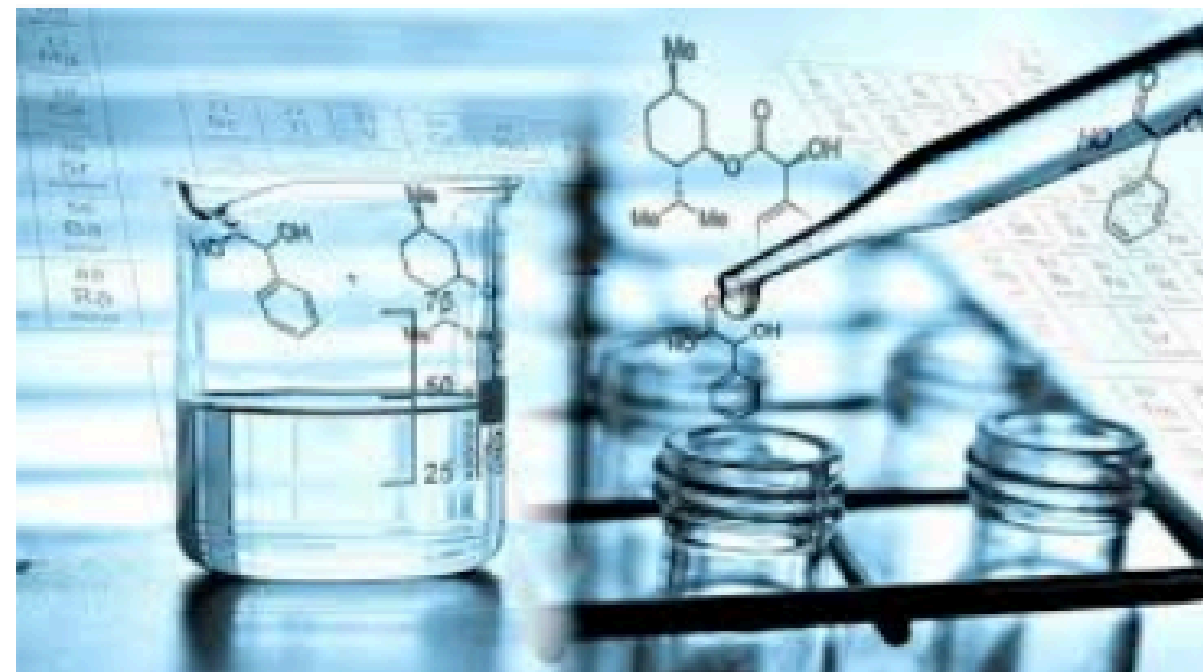
Entry requirements

6/6 or above in Combined Science

or

6/6/5 or above in Separate Sciences (Chemistry must be grade 6 or above)

6 or above in Mathematics



Atoms, compounds, molecules and equations

Amount of substance

Acid–base and redox reactions

Electrons, bonding and structure

The periodic table and periodicity

Group 2 and the halogens

Reaction rates and equilibrium

pH and buffers



Enthalpy, entropy and free energy

Redox and electrode potentials

Transition elements

Organic chemistry

Polymers

Organic synthesis

Analytical techniques (IR and MS)

Chromatography and spectroscopy (NMR)

How will you be assessed?

- 6 hours of exams (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

Chemistry at Beechen Cliff



Teacher of
Chemistry -
Sarah Sole

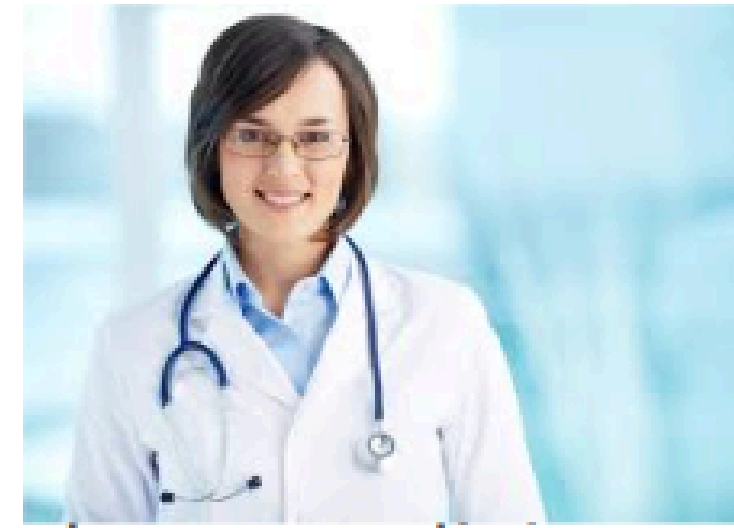
Head of Chemistry
and Head of Science
- Rachel Bala

Teacher of Chemistry
and Head of Medical
Science & KS3
Science - Liam Hollis

A Level Chemistry results

	Beechen Cliff School 2025	National (2025)
%A*-A	41.2	32.0
%A*-B	64.7	54.9
%A*-C	76.5	73.3

Where can A Level Chemistry take me?



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

