

Why study A Level Chemistry?

A Level chemistry is about how matter and energy behave and interact with each other: from molecular changes in the eye responding to light that allow you to see; to fabricating and testing compounds to produce lifesaving drugs. Chemistry remains one of the most vigorous and demanding of A Levels, building skills in the application of mathematics, spatial awareness and logical puzzles – are you up for the challenge?

What will I study?

You will build on your current understanding of chemistry as you gain a much deeper understanding of the subject. We will delve into the mysteries of atomic structure; using the mole; explaining electronic structures and an introduction to the quantum world; a deep understanding of bonding/ structures and of course chemical reactions. We'll explore organic chemistry; the chemistry of global warming and the greenhouse effect; the ozone layer; its man made depletion and recovery. You will be developing your practical skills throughout the course as you work your way through a number of set practical experiments. You will use new equipment to make aspirin, and use your analytical skills to identify unknowns and create electricity using electrochemical cells amongst others.

Assessment

100% examined.

Paper 1: Written exam 1 hour 45 minutes in length, consisting of multiple choice, short and long answer questions. Accounts for 30% of the A-level.

Paper 2: Written exam 1 hour 45 minutes in length, consisting of multiple choice, short and long answer questions. Accounts for 30% of the A-level.

Paper 3: Written exam 2 hours 30 minutes in length, consisting of multiple choice, short and long answer questions. Accounts for 40% of the A-level.

Study trips, visits and events

ChemLab - an opportunity to experience the amazing university standard laboratories at the University of Bristol, carrying out an organic synthesis and enjoying lectures from the university staff. University of Bristol lectures - an explosive talk on chemistry of the atmosphere at A Level standard, including demonstrations that you wouldn't normally see in the classroom. Science forum - talk to early career researchers about the ground breaking science they are working on at our local universities.

Subject entry requirements

6 in Chemistry or 6-6 in Combined Science, plus 6 in Maths.



Student Perspective

“A Level chemistry truly is one of the most rewarding subjects available. Throughout my time as a chemistry student, I've developed skills and abilities that are perfect for a future career in chemistry, or for supporting a career in any scientific field. There's no denying it's a challenging subject, but the support from my teachers has really helped me fully understand the challenging concepts.”

Alex, A Level Chemistry student