

A Level Chemistry

Why study this course at Cronton Sixth Form?

You will study in modern laboratories in the Centre of Excellence for Science and Maths. The chemistry laboratories are fully refitted and have a range of new and sophisticated equipment. A team of highly experienced and passionate teachers bring a wealth of knowledge and enthusiasm to lessons and have the clear aim to be outstanding in all we do.

What will I study?

You will learn the importance of Chemistry in the production of resources, energy and new materials. You will look at the contributions of chemistry to medicine and its impact on our environment. You will explore the fascinating world of atoms and molecules and how they interact to make useful substances including polymers, medicines and metals.

How will I be assessed?

For A Level Chemistry, there are mock exams at the end of year and three exams at the end of the year 2. There are 12 compulsory practical tasks which will be assessed in the theory exams. You will be regularly assessed in class throughout your 2 years of study with us.

Entry Requirements

A minimum of 3 x 5's and 2 x 4's at GCSE including a Grade 5 in English Language, a Grade 5 in Maths and a Grade 6 in Chemistry or a Grade 6:6 in trilogy science.

Can I study this course if I have not taken it at GCSE?

As a core subject, all students will be expected to have studied Chemistry at GCSE level.

Enrichment Opportunities

Chemistry students are encouraged to get involved in the Tomorrow's Scientist enrichment programme which is designed to develop skills in problem-based learning, teamwork, leadership and public speaking. This will be of particular interest to those students who wish to do careers in medical science. This will involve working with fellow students in small groups researching a shared question or theory and presenting their findings in a celebratory evening of academic discovery and interaction. There are university and industry visits and Nuffield placements.

Centre of Excellence in STEM

Cronton Sixth Form College has created a Centre of Excellence for Advanced Level Science, Technology, Engineering and Maths courses. This Centre of Excellence has been developed through the recruitment of some of the best teaching staff in the country, the building of our new state of the art IDEA Centre and science labs, and the expansion of our extra-curricular activities that support applications to the most prestigious universities.

Be inspired

Students can take part in our Tomorrow's Scientists Professional Studies Programme, enter competitions, be part of prestigious national Science and Maths programmes, be inspired by leading industry experts and visit external research labs and top universities such as Cambridge, Oxford and Manchester.

The Cronton Experience

At Cronton you can take part in many enrichment activities such as:

- The High Achievers Programme
- Professional Programmes for Tomorrow's Scientists, Lawyers and Teachers
- Centres of Excellence in STEM, Performing Arts and Sport
- Student Leadership Team
- College Sports Teams
- TASS (Talented Athlete Scholarship Scheme)
- The Duke of Edinburgh's Award
- International Trips
- Scholarships



Learn more about the Cronton Experience at:
www.cronton.ac.uk/experience



What can this course lead on to?

Chemistry is the essential science for all careers in medicine, dentistry, veterinary science and related biomedical sciences courses and careers. Chemistry is also a vital subject for forensic science, biological, biochemical and health related science careers. All chemical, material and physical sciences and engineering.

Any additional costs?

All teaching resources are available on the college intranet. Student notes and work booklets will be given to all students. There is a one-off payment of £10 for Chemistry at the start of the year which covers the cost of a trip, guest speakers and resources.

Outstanding Facilities

The IDEA Centre is a unique STEM facility which offers students innovative training facilities including an advanced manufacturing workshop, a digital and electronics suite, a metrology suite, a process control workshop, a health and fitness suite, a project management suite, meeting rooms, a 3D modelling suite and an Industry 4.0 suite which all prepare students for the Industry 4.0 trend of automation and data exchange in manufacturing technologies.

What have previous students said about this subject?

“I have found that now that I am at Oxford University, I have more confidence in practical lessons compared to other students, because I have already had access to high level equipment at Cronton College.”

Meet the Students

Name:
Sam Barrow

Previously from:
Wade Deacon High School

Destination:
Newcastle University to study Medicine and Surgery

A Level Results:
Biology A*
Chemistry A*
Maths A*

