

Chemistry helps us understand the world in which we live. Pick up a can of soft drink and you'll find chemistry everywhere, from the metal can to the paint used to cover it and the liquid inside. Chemists study how atoms work and combine in different conditions, using experiments and knowledge to develop medicines, foods, fabrics and many other materials.

Chemistry will help you to develop research, teamwork, numeracy, communication, problem-solving and analytical skills, as well as valuable independent study and reasoning skills. Chemistry allows you to get ahead in most STEM careers and opens up a range of opportunities such as Medicine, Chemical Engineering, Clinical Biochemistry, Pharmacology, Toxicology, Forensic Science, Environmental Science and Research & Development.

Qualities and qualifications needed

Grade 6 in GCSE Chemistry, Biology and Physics or Grade 6,6 in Combined Science. Additionally, a Grade 6 or above in Mathematics is desirable to cope with the mathematical demands of this course.

A willingness to learn and be challenged, you will need to be organised, self-motivated with sound scientific knowledge and independent learning skills.

How will the course be assessed?

Formal assessment includes:

- Home Learning Assessments
- End of topics tests
- Practical assessment



This course is 100% examination at the end of Year 13 and is an external examination paper with practical starting points to inspire a second practical portfolio and final piece.



Course Content

Chemistry A-Level is designed to develop theoretical and practical chemistry skills, knowledge and understanding.

The modules are:

- **Module 1: Development of practical skills in Chemistry**
- **Module 2: Foundations in Chemistry**
- **Module 3: Periodic table and energy**
- **Module 4: Core organic Chemistry**
- **Module 5: Physical Chemistry and transition elements**
- **Module 6: Organic Chemistry and analysis**



Examinations

All modules are assessed via terminal examination.

There are three papers:

Paper 1

2 hours 15 minutes

Content from modules 1, 2, 3 & 5. (37% of the total A-Level)

Paper 2

2 hours 15 minutes

Content from modules 1, 2, 4 & 6. (37% of the total A-Level)

Paper 3

1 hour 30 minutes

Content from all modules. (26% of the total A-Level)

Methods of curriculum delivery

The course is designed to be stimulating, enjoyable and challenging with the teaching of theory complimented by many practical activities such as the synthesis of aspirin.

Guided learning is accompanied by frequent formal and informal assessment throughout to check understanding. Promoting student discussion and creating opportunities for active problem solving in class, as well as pre-assimilation of topics prior to learning, develops independence and confidence