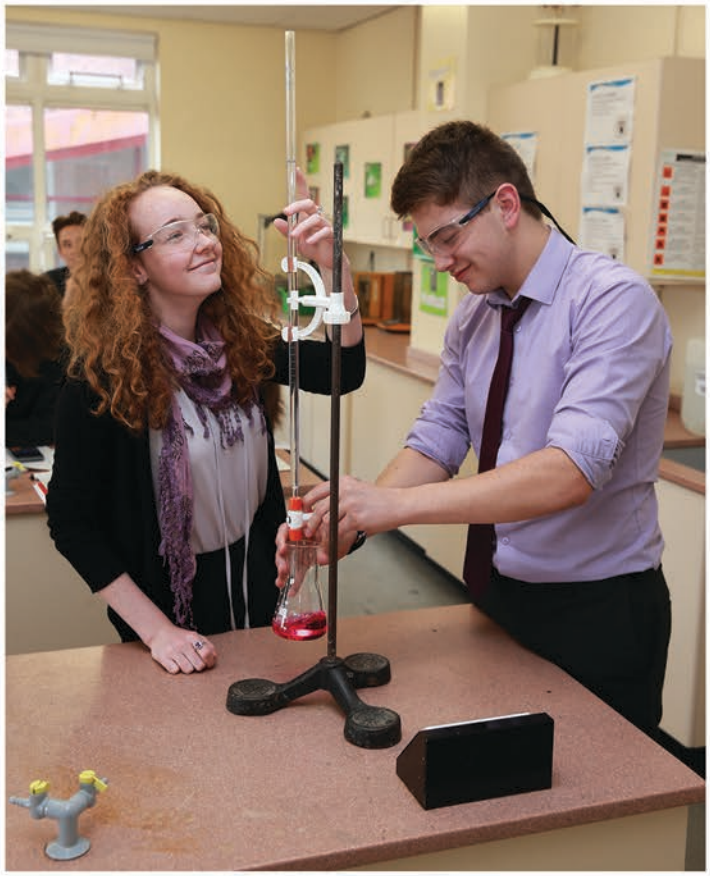
Chemistry

Average class size: 14

Exam board: AQA

Pass rate: 100%
A*-B rate: 69%

Course Leader: Dr Penman - s.penman@huttongrammar.org



What topics are covered in this subject?

The Chemistry course is delivered through the three strands of Organic, Inorganic and Physical Chemistry. It builds upon some topics covered at GCSE such as Atomic Structure, Bonding and Quantitative Chemistry before moving on to new areas such as Organic Reaction Mechanisms, Redox Equilibria and Transition Metals. The range of topic areas and skills make the course both interesting and challenging and allow students to gain an appreciation of how science works and its importance in the wider world.

How is this subject taught?

Lesson time includes opportunities to develop practical skills, study the course content, research applications and practise exam technique. Regular retrieval activities are used throughout the course to strengthen understanding and to support revision of the content covered. Students work individually and collaboratively as they develop their problem solving skills in a range of different contexts.
There is no coursework on this course. However, your performance during practicals will be assessed. There are three exams at the end of the two years for A level, all of which are two hours long. At least 15% of the marks for A level Chemistry are based on what you learned in your practicals.

What are the enrichment opportunities in this subject?

Year 12 Chemistry students are given the opportunity to compete in the Cambridge Chemistry Challenge each year and we also enter a team in the RSC Young Analyst competition. Guest speakers at our Science Cafe provide the opportunity to consider applications and research areas beyond the Chemistry curriculum. Sixth Form students also help to deliver science activities at local primary schools where their enthusiasm for Chemistry helps to motivate the young scientists.

Where does this subject lead at 18+?

Medicine
Radiography
Forensic Science
Research and Development
Chemical Engineering
Veterinary Surgery
Pharmacology
Nursing