

Chemistry



What will I study?

OCR Chemistry A develops knowledge and understanding of the different areas of Chemistry. It develops an appreciation of the skills, knowledge and understanding of scientific methods and also competence in a variety of practical, mathematical and problem-solving skills. It helps students understand how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society. It develops students' interest in further study and careers associated with the subject.

Teaching of practical skills is integrated with the theoretical topics and they are assessed through written papers and the Practical Endorsement.

The course is made up of six modules: -

- Module 1** Development of practical skills
- 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

Assessment

There are 3 exam papers at the end of the 2 year course :

Paper 1 Periodic table, elements and physical chemistry
100 marks 2hr15mins.

Paper 2 Synthesis and analytical techniques
100 marks 2hr 15mins

Paper 3 Unified chemistry
70 marks 1hr 30 mins

Practical Endorsement is awarded as a separate certificate

Career Opportunities

Chemistry is a well-respected subject in its own right and suitable for entry into a wide range of professions. Other subjects that would go well with Chemistry are Biology, Physics and Mathematics. However, very many other combinations of subjects are also suitable. Students may be concentrating on Arts, Humanities or Modern Language subjects and wish to take Chemistry to broaden their studies by continuing to take a science subject.

With a qualification in Chemistry, students can progress on to Further or Higher Education studying Chemistry or one of the other sciences or related subjects, or work in science-based industry such as Chemical Engineering, Materials Science or Biotechnology. It is also essential for the Medicine, Pharmacy and Environmental Science.

Former students have gone on to study a wide range of subjects including – Medicine (Cardiff, Keele), Chemistry(Oxford, Cardiff, Reading, Plymouth), Pharmacy(Cardiff), Natural Sciences(Cambridge), Biological Sciences (Oxford), Physiotherapy(Bournemouth), Biomedical Sciences (Southampton, Exeter), Sport Science(Southampton, Bristol UWE), Engineering(Bath)

Entry Requirements

Five Level 4 GCSEs are required for entry into 6th Form.

Level 5 pass is required in your chosen, or related, subject.

Some subjects require Level 6; decisions will be based on individual students.

Specialist facilities

Specialist Post 16 laboratories

Hours of study (fortnightly)

9 hours of lesson time
6 hours independent learning



Molecular models are used to study chemicals such as aspirin.

