CHEMISTRY

Course

A level Chemistry

Exam Board

OCR Chemistry A

Entry requirements

Combined Science grades 6 6. Separate Science Chemistry grade 6. GCSE Maths grade 6 essential, GCSE English grade 5 desirable.

Why study Chemistry?

A level Chemistry will help you to develop the skills needed to explain the properties of materials and to explain how substances react. This course suits logical thinkers and builds on the concepts that have been studied in the new GCSE Chemistry specifications. It covers the key concepts in chemistry and practical skills are integrated throughout the course.

Course content

Content is divided into six teaching modules:

Module 1 - Development of practical skills in chemistry.
This module underpins the whole of the specification and covers the practical skills that students should develop throughout the course.

Module 2 - Foundations in chemistry.
Atomic structure, bonding, amount of substance, acids and redox.

Module 3 - Periodic table and energy.
Periodic table and periodicity, group two and group seven elements, enthalpy changes and reaction rates.

Module 4 - Core organic chemistry.
Hydrocarbons, alkanes and alkenes, alcohols, haloalkanes, synthesis and analytical techniques.

Module 5 - Physical chemistry and transition elements. Kinetics, equilibria, pH, enthalpy, entropy and electrode potentials.

Module 6 - Organic chemistry and analysis.
Aromatic compounds, carboxylic acids and esters, amines, amides, polymers and analysis.

Assessment

The A level award is assessed by three examination papers:

Paper 1 - Periodic table, elements and physical chemistry
(100 marks total - 2hrs 15 mins - weighting 37%)

Paper 2 - Synthesis and analytical techniques
(100 marks total - 2hrs 15 mins - weighting 37%)

Paper 3 - Unified chemistry
(70 marks total - 1hr 30 mins - weighting 26%)

Progression after Sixth Form

The A level Chemistry course is designed to provide a suitable preparation for degree courses including: Chemistry, Chemical Engineering, Materials Science, Forensic Science, Medicine, Veterinary Sciences, Dentistry and Pharmacology.

Career opportunities

Chemistry related careers include: Chemical Engineer, Doctor, Dentist, Forensic Scientist, Polymer Scientist, Teacher, Patent Lawyer, Scientific Journalist and Material Scientist.

St Peter's students say...

'Chemistry challenges, stretches and pushes me. I find it difficult but I enjoy the challenge and feel as though the teachers do all they can to support me.'

For more information contact Head of Department:

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