

SUBJECT GUIDE:

Exam Board: OCR
1 year - AS Level
(Year one of the Two year A level)

WHY CHOOSE CHEMISTRY:

Chemistry is the most fundamental of all the sciences, and is the basis of many scientific and technological ideas. The subject looks at how substances react and the principles and laws that predict their behaviour. This ranges from the large scale of the industrial processes to the very small scale of atoms and subatomic particles. If you wish to embark upon a career in Medicine, Dentistry, Pharmacy etc, it is an essential to continue to study Chemistry at A-2 level.

WHAT WE STUDY: AS LEVEL

Module 1 - H032 - Development of practical skills in Chemistry.

This module involves laboratory based experimental skills in Chemistry. These hands-on skills are divided into 12 categories and form the practical endorsement that every must do.

Module 2 - H032 - Foundation in Chemistry.

This module involves the study of atomic structure, amount of substance, acids and redox, bonding, shapes and intermolecular forces.

Module 3 - H032 - Periodic table and energy

This module involves the study of periodicity, reactivity trends, enthalpy, reaction rates and equilibrium.

Module 4 - H032 Core organic chemistry and analysis

This module provides learners with a basic knowledge and understanding of the important chemical ideas that underpin the study of organic chemistry. This module also provides learners with an opportunity to develop important organic practical skills.

HOW YOU WILL BE ASSESSED:

Unit 1 - Breadth in chemistry - Written examination paper of 1 hours 30 minutes (50 % of total AS level). Assesses content from modules 1,2,3 and 4 described above.

Unit 2 - Depth in chemistry - Written examination paper of 1 hours 30 minutes (50 % of total A level). Assesses content from modules 1,2,3 and 4 described above.

Further information can be obtained from ocr.org.uk/aslevelchemistry

COURSE READING LIST:

A Level Chemistry for OCR - Year 1 and AS
by Rob Ritchie and Dave Gent
Publisher: Oxford University Press
ISBN 978-0-19-835196-2

For further reading list see Chemistry Teachers.

PROGRESS PATHS:

Chemistry opens doors to a wide variety of careers. The career opportunities available are as vast as the subject itself due, in part, to the transferable skills gained whilst studying physics. It is these transferable skills that make the difference between an employee who is merely satisfactory and one who will significantly improve the performance of the organisation concerned. Employers see a Chemistry qualification as an indication of someone who will immediately be an asset to the organisation. This is because:

Chemistry requires a logical and numerate mind. The ability to solve problems, gained through studying chemistry, is of paramount importance to the future of technology. Communication skills are developed through report-writing and presentations. Computing and practical skills are second nature to those trained in chemistry. Teamwork and flexibility are essential in lab work and projects.

Your future matters. So, if you have an enquiring mind, enjoy a challenge and like solving problems, give yourself the best chance by studying chemistry- the subject of the future.

THE CHEMISTRY DEPARTMENT:

Mr Kenneth Motteram, BSc, Cert.G.I.Biol & QTS

Mr Motteram joined Regent for September 2015. He has taught at a number of schools across London teaching both Science and Chemistry. His most recent post was at a grammar school in Edgware. He is also an examiner for OCR.

Dr. Dilip Joshi, BSc, MSc, PhD & QTS

Dr. Joshi brings considerable expertise to the Regent team. Having most recently held the post of Chemistry teacher at high-achieving North London Collegiate School for eight years, preceded by five years as Head of Science at Stanmore College, he has also published a number of research papers. In addition, he gives instruction and guidance to all students in implementing their UCAS applications.