

Chemistry

Awarding Body

Assessment and Qualification Alliance (AQA)

Course Level

AS and A2 level

Course Leader

Mr M. Darke

Entry Requirements

Grade B in GCSE Science and be of a similar standard in Maths. Individual cases will be considered on their own merits, however, so if in doubt, ask!

Course Description

As well as obvious links to the chemical industry, pharmaceuticals and biochemistry, Chemistry is a required choice for careers in Medicine, Dentistry or Veterinary Science. It is also well regarded by Universities and many students go on to careers in apparently unrelated disciplines, such as Law and Accountancy. There is a mix of practical work and theory, including a substantial amount of calculation work (but don't worry, we will teach you all the maths you need and you do not need to take AS maths to be accepted on the course)

AS Level: 3 units	A2 Level: 3 units
Unit 1 Foundation Chemistry The structure of atoms; calculating the amount of substance; ionic, covalent and metallic bonding and intermolecular forces; the construction of the periodic table; alkanes from crude oil External assessment: 1¼ hr exam	Unit 4 Kinetics, Equilibria and Organic Chemistry Collision theory of reaction rates; oxidation and reduction; the halogens; extraction of metals; alkenes and haloalkanes External assessment: 1¾ hr exam.
Unit 2 Chemistry in Action Collision theory of reaction rates; oxidation and reduction; the halogens; extraction of metals; alkenes and haloalkanes External assessment: 1¼ hr exam	Unit 5 Energetics, Redox and Inorganic Chemistry Thermodynamics; the reactions of Period 3 elements; redox equilibria; transition metals. External assessment: 1¾ hr exam.
Unit 3 Investigative and Practical Skills Making observations and measurements; analysing and evaluating results Internal assessment through investigative assignments based on practical work carried out in lesson time.	Unit 6 Investigative and Practical Skills Making observations and measurements; analysing and evaluating results. Internal assessment through investigative assignments based on practical work carried out in lesson time.