

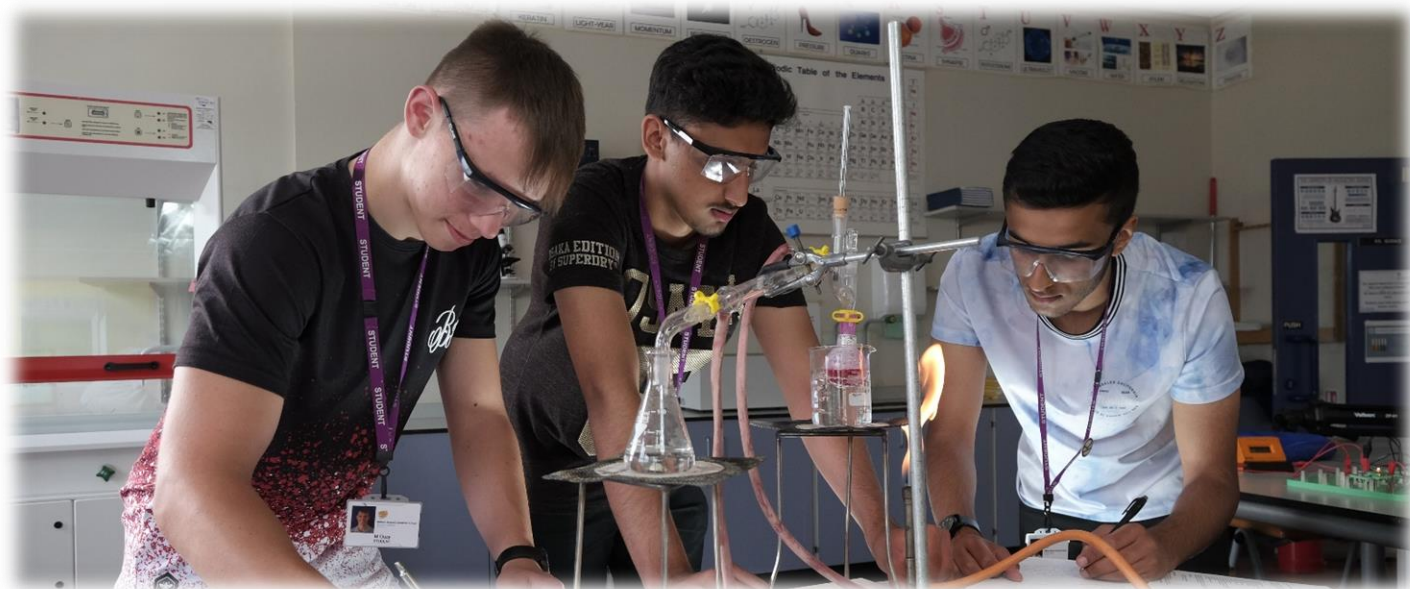


Chemistry

Engage

Endeavour

Excel



Entry Requirements:

GCSE Chemistry Grade 6+ or Combined Sciences 6, 7+.

Additional: Mathematics Grade 5+

Pass Rate: 100%

Exam Board: AQA

Trips & Events:

- Science Live: A-Level at Whitworth Hall, Manchester
- Spectroscopy in a Suitcase: in-house hosted by The University of Manchester
- Schools Analyst Competition: North-West Division, Manchester
- Various Local Chemical Lectures held at schools such as Withington Girls and Manchester Grammar School
- The UK Chemistry Olympiad

Student Voice: "I have enjoyed studying Chemistry A-Level over the last two years, it's my favourite subject. I like the booklets the Chemistry teachers use and that I can work with my friends in other classes as well as my own. Everyone is friendly in the class and we work well with each other so we can all be successful!"

Student Voice: "I have found Chemistry at A-Level my most challenging subject, especially the Physical Chemistry (maths). My teachers have helped me during lessons and the support lunchtime session every week so I can achieve my best in the subject. I have had to work very hard but with their support I'm on track to get the grade I want."



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A Level Chemistry AQA Specification

Year 12

There are three key branches of Chemistry studied with associated practical work in both years:

- **Physical Chemistry** (theories of physics and mathematics in Chemistry)
- **Inorganic Chemistry** (study of inorganic molecules and their trends)
- **Organic Chemistry** (synthesis and behaviour of carbon-containing molecules)

Content:

- Atomic structure
- Moles calculations
- Kinetics
- Equilibrium constants and Kc calculations
- Bonding
- Redox reactions
- Periodicity
- Group 2 and 7
- Alkanes
- Alkenes
- Halogenoalkanes
- Alcohols
- Optical Isomers

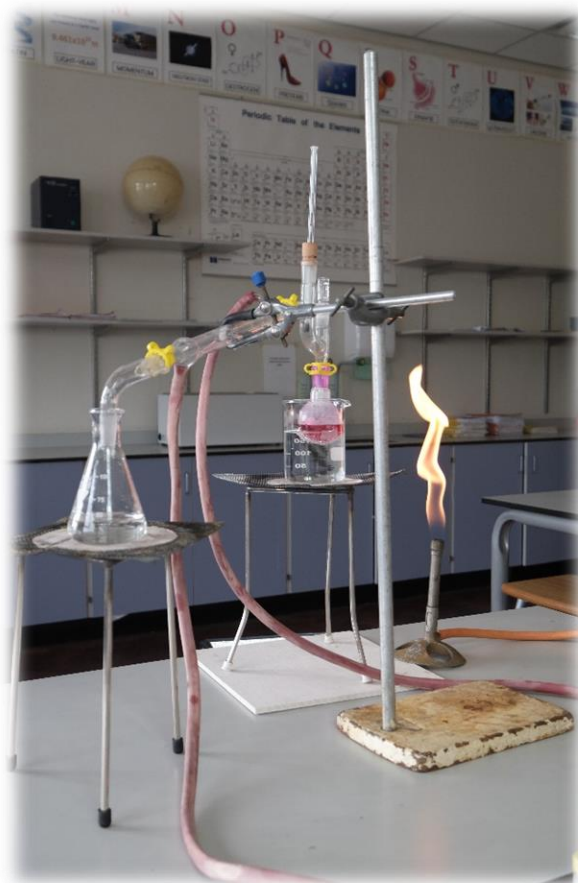
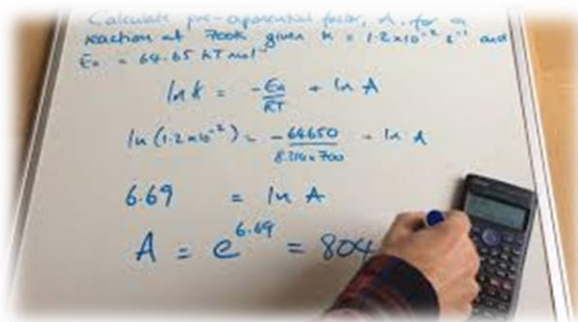
Year 13

Content:

- Energetics and Thermodynamics
- Kp calculations
- Electrode Potentials
- Acids, Bases and Buffers
- Transition Metals
- Reactions of Inorganic Compounds
- Amines
- Carbonyls
- Polymers
- NMR Spectroscopy
- Organic analysis

A-Level Assessment

You will take three 2-hour Chemistry examinations at the end of your two years of study. The Chemistry Practical is tested in the final paper. You will also receive a practical endorsement for Chemistry A-Level additionally.



Paper 1

Physical Chemistry and Inorganic Chemistry Relevant Practical Skills

2 hours, 105 marks, 35% of A-Level

Short and Long Answer Questions

Paper 2

Physical Chemistry and Organic Chemistry Relevant Practical Skills

2 hours, 105 marks, 35% of A-Level

Short and Long Answer Questions

Paper 3

All Chemistry Content

All Practical Skills

2 hours, 90 marks, 30% of A-Level

60 marks of Practical work and any content, 30 marks multiple choice



Beyond A Levels: Future career Aspirations

Chemistry is a valuable A-Level that can lead on to a variety of degree courses and careers. These include:

- Accountancy
- Biochemical Scientist
- Chemical Engineer
- Dentist
- Environmental Scientist
- Financier
- Toxicologist
- Forensic Scientist
- Lawyer
- Medical professional (GP/consultant/surgeon)
- Nanotechnologist
- Pharmacologist
- Research Scientist

