A LEVEL CHEMISTRY
(OCR A)

The OCR Chemistry A Course is made up of five modules:

Year one:

1. **Foundations of chemistry** - Atoms, compounds, moles, acids, redox, bonding, shapes of molecules
2. **Periodic table and energy** - Periodicity, reactivity, Enthalpy, Reaction rates and equilibrium
3. **Core organic chemistry** - Formulae, alkanes, alkenes, alcohols, haloalkanes, synthesis and spectroscopy

Year two:

4. **Physical chemistry and transition elements** - Rates, equilibria, buffers, enthalpy, entropy, redox and transition metals
5. **Organic chemistry and analysis** - Aromatics, amines, carbonyls, synthesis, spectroscopy

Practical endorsement – A series of enquiry based practical activities. Findings are reported and checked by examiners. This is designed to check competencies in basic chemical procedures.

This course is an excellent preparation for further study of the subject at university as well as many other courses as Chemistry demonstrates a capability in a variety of desirable skills. It is essential for those wishing to prepare for careers in medicine, dentistry and veterinary science, and a very useful subject for those wishing to study other sciences or engineering.

Examination structure:

Module	Exam	
	Length	**%**
Periodic table, elements and physical chemistry - assesses modules 1,2 and 4	135min	37%
Synthesis and analytical techniques - assesses modules 1,3 and 5	135min	37%
Unified chemistry – assesses modules 1-5	90min	26%
Practical endorsement for Chemistry	N/A	Reported separately

GCSE requirements:

Science – grade 6:6 in GCSE Combined Science, ***or*** *a grade 6 in GCSE Chemistry*
English Language – grade 4
Maths – grade 6

Students who wish to take two or more from Biology, Chemistry, Physics, Maths and Further Maths will need at least one grade 7 in a relevant science or Maths