

CHEMISTRY A LEVEL

The Year 12 topics extend and develop some of the ideas you have learnt at GCSE. Throughout both courses the effect of electron arrangement, energies and structure on chemical behaviour is stressed. You need to be able to learn the fundamental laws and principles of Chemistry and then apply them to unfamiliar situations.

The experimental element assesses your practical skills so you need to be good at carrying out experiments, as well as analysing data produced and evaluating the experiment.

A few of you may choose to study chemistry for one year only, in which case you take the AS exams, not the A level.

AS Advanced Subsidiary in Chemistry

Exams	Content	Assessment	Weighting (% of final AS mark)
Paper 1	Atomic structure and Periodic Table Bonding and Structure Redox 1 Inorganic Chemistry Formulae, equations and amounts of substance Experimental methods	1 hour 30 minutes—80 marks	50%
Paper 2	Formulae, equations and amounts of substance Organic chemistry 1 Bonding and Structure Modern Analytical techniques 1 Energetics 1 Kinetics 1 Equilibrium 1 Experimental methods	1 hour 30 minutes—80 marks	50%

The Year 13 topics extend and develop some of the ideas you have learnt during Year 12. Throughout both courses the effect of electron arrangement, energies and structure on chemical behaviour is stressed as key synoptic concepts. You need to be able to learn the fundamental laws and principles of Chemistry and then apply them to unfamiliar situations.

The exams for the full A level assess content from across both years of the course.

The experimental work continues to assess your practical skills so you need to be good at carrying out experiments, as well as analysing data produced and evaluating data.

A2 - Advanced GCE in Chemistry

Exams	Content	Assessment	Weighting (% of final AS mark)
Paper 1	A2 Content Equilibrium 2 Acid-base equilibria Energetics 2 Redox 2 Transition metals	1 hour 45 minutes written paper— 90 marks	30%
Paper 2	A2 Content Kinetics 2 Organic Chemistry 2 Organic Chemistry 3 Modern Analytical techniques 1	1 hour 45 minutes written paper— 90 marks	30%
Paper 3	Synoptic paper assessing content from all areas of the AS and A level course, including practical skills	2 hour 30 minutes written paper— 120 marks	40%

Practical Assessment

There are 16 core practicals that cover 12 techniques required for the practical competency measure. This is a separate qualification to the A level, though knowledge of the core practicals may be assessed on the exam papers.

ENTRY REQUIREMENTS

In order to be automatically accepted onto any of the above science courses we expect students to have achieved a GCSE Grade 6 from Combined Science and a Grade 6 in Maths or Grade 6 in Chemistry and Grade 6 in Maths.

For more information about this subject, please contact
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