

Exam board: AQA A-level Chemistry

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	Year 12	Year 13
Autumn term	<p>Focus on Physical chemistry: Looking at models of the atom and the evidence for shells, sub shells and isotopes. Studying the idea of moles with reference to chemical calculations in a variety of contexts and studying the different forms of bonding and shapes of molecules. Finding out about enthalpy and the mathematics of equilibria</p> <p>Introducing the inorganic chemistry of group 2, seven and their redox reactions.</p>	<p>In depth study of the concepts behind and application of Gibbs Free energy; Further study of kinetics and rate equations; The mathematics of pH and buffer solutions; developing ideas of redox into an understanding of electrode potentials and introducing the inorganic chemistry of transition metal complexes.</p>
Spring term	<p>Focus on organic chemistry. Starting with nomenclature and the theory behind chemical mechanisms before moving onto the specific chemistry of different functional groups and chemical analysis</p>	<p>Refreshing knowledge of organic mechanisms and extending into those related to new function groups including the chemistry of carbonyl groups and aromatic compounds. Developing knowledge of specific reactions into an appreciation of the pathways needed to synthesise complex molecules. Studying further spectral analysis including forms of chromatography and interpreting NMR.</p>
Summer term	<p>Preparation for AS exams for all students (on one and two year course). Consolidation of skills from the 6 practical skills assessments undertaken during the year and introducing further thermodynamics from the year</p>	<p>Mastery and Revision (preparation for A Level exams)</p>
Assessment	<p>Students sit 2 x 1 hour 30 minute exams covering all of the year 12 content in May/June. These are externally assessed and results are received in August. Students are assessed throughout the year internally (please see the school assessment calendar for more information). Students will also be assessed against the Common Practical Assessment Criteria (CPAC) for 6 required practical investigations.</p>	<ul style="list-style-type: none"> Students sit 3 x 2 hour exams at the end of year 13 in June. These are externally assessed and results are received in August. Students are assessed throughout the year internally (please see school assessment calendar for more information). Students will also be assessed against the Common Practical Assessment Criteria (CPAC) for the remaining 6 required practical investigations.