

## OCR Chemistry A Level-Specification A (H432)

Chemistry at A Level builds on the chemical fundamentals gained at GCSE, inspiring students via content and practical work to develop logical thinking and sought-after problem-solving skills. The course is flexible with the specification divided up into topics, each covering different key concepts in chemistry. The topics range from the Periodic Table & Energy to Organic Chemistry & Analysis. Teaching of practical skills is integrated with the theoretical topics & assessed both through written papers and for A level only, the Practical Endorsement.

Please click on the link for the full course specification: [Chemistry A Level](#)

### Course Content Year 12

- Unit 1: Development of Practical Skills
- Unit 2: Foundation in Chemistry
- Unit 3: Periodic Table & Energy
- Unit 4: Core Organic Chemistry

### Topics Covered per Half Term

Term	Topics
Autumn 1	<ul style="list-style-type: none"><li>• Atoms, Compounds, Molecules and Equations</li><li>• Amounts of Substance</li></ul>
Autumn 2	<ul style="list-style-type: none"><li>• Acid-Base and Redox Reactions</li><li>• Electrons, Bonding and Structure</li></ul>
Spring 1	<ul style="list-style-type: none"><li>• The Periodic Table and Periodicity</li><li>• Group 2 and the Halogens</li><li>• Qualitative Analysis</li></ul>
Spring 2	<ul style="list-style-type: none"><li>• Enthalpy Changes</li><li>• Basic Concepts in Organic Chemistry</li><li>• Hydrocarbons</li></ul>
Summer 1	<ul style="list-style-type: none"><li>• Reaction Rates and Equilibrium (Qualitative)</li><li>• Alcohols and Haloalkanes</li><li>• Organic Synthesis</li><li>• Analytical Techniques</li></ul>
Summer 2	<ul style="list-style-type: none"><li>• Revision</li><li>• Exams</li></ul>

	<ul style="list-style-type: none"> <li>• Reaction Rates and Equilibrium (Quantitative)</li> <li>• Aromatic Compounds</li> </ul>
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### Course Content Year 13

- Unit 5: Physical Chemistry
- Unit 6: Organic Chemistry & Analysis
- Unit 7: Practical Endorsement

### Topics Covered per Half Term

Term	Topics
Autumn 1	<ul style="list-style-type: none"> <li>• Carbonyl Compounds, pH and Buffers</li> </ul>
Autumn 2	<ul style="list-style-type: none"> <li>• Enthalpy, Entropy and Free Energy</li> <li>• Carboxylic Acids and Esters</li> </ul>
Spring 1	<ul style="list-style-type: none"> <li>• Redox and Electrode Potentials</li> <li>• Nitrogen Compounds</li> </ul>
Spring 2	<ul style="list-style-type: none"> <li>• Polymers</li> <li>• Transition Elements</li> </ul>
Summer 1	<ul style="list-style-type: none"> <li>• Organic Synthesis</li> <li>• Chromatography and Spectroscopy (NMR)</li> </ul>
Summer 2	<ul style="list-style-type: none"> <li>• Revision</li> <li>• Exams</li> </ul>