A-Level Chemistry: OCR A (H432)

Curriculum and Assessment Overview: 2022/23

<table>
<tr><th>Content Overview</th><th colspan="2">Assessment Overview</th></tr>
<tr><td rowspan="4">Content is split into six teaching modules:
• Module 1 – Development of practical skills in chemistry
• Module 2 – Foundations in chemistry
• Module 3 – Periodic table and energy
• Module 4 – Core organic chemistry
• Module 5 – Physical chemistry and transition elements
• Module 6 – Organic chemistry and analysis
Component 01 assesses content from modules 1, 2, 3 and 5.
Component 02 assesses content from modules 1, 2, 4 and 6.
Component 03 assesses content from all modules (1 to 6).</td><td>Periodic table, elements and physical chemistry (01)
100 marks
2 hours 15 minutes written paper</td><td>37%
of total A level</td></tr>
<tr><td>Synthesis and analytical techniques (02)
100 marks
2 hours 15 minutes written paper</td><td>37%
of total A level</td></tr>
<tr><td>Unified chemistry (03)
70 marks
1 hour 30 minutes written paper</td><td>26%
of total A level</td></tr>
<tr><td>Practical Endorsement in chemistry (04)
(non exam assessment)</td><td>Reported separately</td></tr>
</table>

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Curriculum Delivery Plan: 2022/23

Year 12 (AS)

Teacher A (SJN)	Teacher B (TVA)
Term 1	
2.1.3 Amount of substance	2.1.1 Atomic structure and isotopes
2.1.4 Acids	2.1.2 Compounds, formulae and equations
2.1.5 Redox	2.2.1 Electron structure
	2.2.2 Bonding and structure
Term 2	
3.2.1 Enthalpy changes	3.1.1 Periodicity
3.2.2 Reaction rates	3.1.2 Group 2 elements
3.2.3 Chemical equilibrium	3.1.3 The halogens
	3.1.4 Qualitative analysis
	4.1.1 Basic concepts of organic chemistry
	4.1.2 Alkanes
Term 3	
4.2.2 Haloalkanes	4.1.3 Alkenes
4.2.3 Organic synthesis	4.2.1 Alcohols
4.2.4 Analytical techniques	6.2.1 Amines
5.1.2 How far? Chemical equilibrium	

Year 13 (A2)

Teacher A (SJN)	Teacher B (TVA)
Term 1	
5.1.1 How fast? Reaction rates and kinetics	5.3.1 Transition elements
5.1.3 Acids, bases and buffers	5.2.3 Redox and electrode potentials
5.2.1 Lattice enthalpy	5.3.2 Qualitative analysis
5.2.2 Enthalpy and entropy	
Term 2	
6.1.1 Aromatic compounds	6.2.2 Amino acids, amides and chirality
6.2.4 Carbon–carbon bond formation	6.2.3 Polyesters and polyamides
6.2.5 Organic synthesis	6.1.2 Carbonyl compounds
6.3.1 Chromatography and analysis	6.1.3 Carboxylic acids and esters
6.3.2 Spectroscopy	