



Course title	Chemistry																
Awarding body and syllabus number	OCR AS - H032 A2 - H432																
Content	<p>Chemistry A – AS (H032) / A Level (H432)</p> <table border="1"><tr><td colspan="2">Module 1 – Development of practical skills in chemistry</td></tr><tr><td colspan="2">Skills of planning, implementing, analysis and evaluation</td></tr><tr><td colspan="2">Module 2 – Foundations in chemistry</td></tr><tr><td colspan="2">Includes:<ul style="list-style-type: none">• Atoms, compounds, molecules and equations• Amount of substance• Acid–base and redox reactions• Electrons, bonding and structure.</td></tr><tr><td>Module 3 – Periodic table and energy</td><td>Module 4 – Core organic chemistry</td></tr><tr><td>Includes:<ul style="list-style-type: none">• The Periodic table and periodicity• Group 2 and the halogens• Qualitative analysis• Enthalpy changes• Reaction rates and equilibrium (qualitative).</td><td>Includes:<ul style="list-style-type: none">• Basic concepts• Hydrocarbons• Alcohols and haloalkanes• Organic synthesis• Analytical techniques (IR, MS).</td></tr><tr><td>Module 5 – Physical chemistry and transition elements</td><td>Module 6 – Organic chemistry and analysis</td></tr><tr><td>Includes:<ul style="list-style-type: none">• Reaction rates and equilibrium (quantitative)• pH and buffers• Enthalpy, entropy and free energy• Redox and electrode potentials• Transition elements.</td><td>Includes:<ul style="list-style-type: none">• Aromatic compounds• Carbonyl compounds• Carboxylic acids and esters• Nitrogen compounds• Polymers• Organic synthesis• Chromatography and spectroscopy (NMR).</td></tr></table>	Module 1 – Development of practical skills in chemistry		Skills of planning, implementing, analysis and evaluation		Module 2 – Foundations in chemistry		Includes: <ul style="list-style-type: none">• Atoms, compounds, molecules and equations• Amount of substance• Acid–base and redox reactions• Electrons, bonding and structure.		Module 3 – Periodic table and energy	Module 4 – Core organic chemistry	Includes: <ul style="list-style-type: none">• The Periodic table and periodicity• Group 2 and the halogens• Qualitative analysis• Enthalpy changes• Reaction rates and equilibrium (qualitative).	Includes: <ul style="list-style-type: none">• Basic concepts• Hydrocarbons• Alcohols and haloalkanes• Organic synthesis• Analytical techniques (IR, MS).	Module 5 – Physical chemistry and transition elements	Module 6 – Organic chemistry and analysis	Includes: <ul style="list-style-type: none">• Reaction rates and equilibrium (quantitative)• pH and buffers• Enthalpy, entropy and free energy• Redox and electrode potentials• Transition elements.	Includes: <ul style="list-style-type: none">• Aromatic compounds• Carbonyl compounds• Carboxylic acids and esters• Nitrogen compounds• Polymers• Organic synthesis• Chromatography and spectroscopy (NMR).
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Assessment

AS Level Chemistry A (H032) – first exam June 2016

AS Chemistry A (H032)					
ASSESSMENT OVERVIEW					
Paper		Marks	Duration	Weighting	
Paper 1	Breadth in chemistry		70	1 hr 30 mins	50%
	Section A	Multiple choice	20		
	Section B	Structured questions covering theory and practical skills	50		
Paper 2	Depth in chemistry		70	1 hr 30 mins	50%
	Structured questions and extended response questions, covering theory and practical skills		70		

A Level Chemistry A (H432) – first exam June 2017

A Level Chemistry A (H432)					
ASSESSMENT OVERVIEW					
Paper		Marks	Duration	Weighting	
Paper 1	Periodic table, elements and physical chemistry		100	2 hr 15 mins	37%
	Section A	Multiple choice	15		
	Section B	Structured questions covering theory and practical skills	85		
Paper 2	Synthesis and analytical techniques		100	2 hr 15 mins	37%
	Section A	Multiple choice	15		
	Section B	Structured questions covering theory and practical skills	85		
Paper 3	Unified chemistry		70	1 hr 30 mins	26%
	Structured questions and extended response questions covering theory and practical skills		70		
Non-exam assessment	Practical Endorsement for chemistry		Pass/Fail	Non-exam assessment	Reported separately
	See pages 27 and 28. Teacher-assessed component common to Chemistry A and Chemistry B (Salters). Candidates complete a minimum of 12 practical activities to demonstrate practical competence. Performance reported separately to the A Level grade. Moderation details still to be confirmed by Ofqual at the time of going to press		0		

Special Requirements	<p>All students will need to purchase their own textbooks and a Lab Coat.</p> <p>Specific entry requirements are as follows :</p> <p>Double Award Science at grade A* - B or Chemistry GCSE at grade A* - B and Maths at grade A*-B</p> <p>The new AS Level qualifications, for first teaching in September 2015, won't count towards the final grade of an A Level, but will be separate, stand alone qualifications in their own right.</p>
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