

Chemistry- Exam Board: OCR A

Subject Overview (coursework/exam split, timings, weightings etc.):

- Written exam 3 papers
- No practical mark (PAG endorsed separately)

Content is in six 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

Content Overview	Assessment Overview	
<p>Content is split into six teaching modules:</p> <ul style="list-style-type: none"> • 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 <p>Component 01 assesses content from modules 1, 2, 3 and 5.</p> <p>Component 02 assesses content from modules 1, 2, 4 and 6.</p> <p>Component 03 assesses content from all modules (1 to 6).</p>	<p>Periodic table, elements and physical chemistry (01)</p> <p>100 marks</p> <p>2 hours 15 minutes written paper</p>	<p>37%</p> <p>of total A level</p>
	<p>Synthesis and analytical techniques (02)</p> <p>100 marks</p> <p>2 hours 15 minutes written paper</p>	<p>37%</p> <p>of total A level</p>
	<p>Unified chemistry (03)</p> <p>70 marks</p> <p>1 hour 30 minutes written paper</p>	<p>26%</p> <p>of total A level</p>
	<p>Practical Endorsement in chemistry (04)</p> <p>(non exam assessment)</p>	<p>Reported separately</p> <p>(see Section 5)</p>

Key Topics for year 12:

The four modules are each divided into key topics:

Module 1: Development of practical skills in chemistry

- Practical skills assessed in a written examination

Module 2: Foundations in chemistry

- Atoms, compounds, molecules and equations
- Amount of substance
- Acid–base and redox reactions
- Electrons, bonding and structure

Module 3: Periodic table and energy

- The periodic table and periodicity
- Group 2 and the halogens
- Qualitative analysis
- Enthalpy changes
- Reaction rates and equilibrium (qualitative)

Module 4: Core organic chemistry

- Basic concepts
- Hydrocarbons
- Alcohols and haloalkanes
- Organic synthesis
- Analytical techniques (IR and MS)

Useful resources:

OCR a-level chemistry textbook

www.kerboodle.com

<https://www.physicsandmathstutor.com/chemistry-revision/a-level-ocr-a/>

<https://www.ocr.org.uk/qualifications/as-and-a-level/chemistry-a-h032-h432-from-2015/assessment/#as-level>

Useful resources:

- Kerboodle online book
- AQA Chemistry revision guide (including downloadable flashcards)
- AQA past paper exam questions
- Required practical booklet (including past exam paper questions)

Useful revision tips:

- Condense information into key points onto fact cards/flashcards
- Summarise key content onto revision mind maps
- Apply knowledge to quick fire questions
- Past exam paper practise
- Write exam questions to test yourself
- Construct mark schemes and become the examiner
- Exam timing practise – 1 min per mark training