Course information for Parents

Course information for Parents
Year: 12 and 13 Subject:

Faculty Area	Science	**Head of Chemistry contact information**	Mrs M Couzens mcouzens@thehazeleyacademy.com
Examination Board	OCR A	**Specification Code**	H432 Full A Level H032 AS

Subject Content : Full specification available at: http://www.ocr.org.uk/qualifications/as-a-level-gce-chemistry-a-h032-h432-from-2015/ Qualification at a glance:

Content Overview	Assessment Overview	
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).	Periodic table, elements and physical chemistry (01) 100 marks 2 hours 15 minutes written paper	**37%** of total A level
	Synthesis and analytical techniques (02) 100 marks 2 hours 15 minutes written paper	**37%** of total A level
	Unified chemistry (03) 70 marks 1 hour 30 minutes written paper	**26%** of total A level
	Practical Endorsement in chemistry (04) (non exam assessment)	Reported separately (see Section 5)

All components include synoptic assessment.

Module 1 – Development of practical skills in chemistry • Practical skills assessed in a written examination • Practical skills assessed in the practical endorsement
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)
Module 5 – Physical chemistry and transition elements • Reaction rates and equilibrium (quantitative) • pH and buffers • Enthalpy, entropy and free energy • Redox and electrode potentials • Transition elements
Module 6 – Organic chemistry and analysis • Aromatic compounds • Carbonyl compounds • Carboxylic acids and esters • Nitrogen compounds • Polymers • Organic synthesis • Chromatography and spectroscopy (NMR)

Additional Equipment Needed

- Calculator for every Chemistry lesson
- Students are encouraged to buy their own lab coat for practical work
- Students are encouraged to buy their own revision guides

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Assessment Details:

To be successful students will need to be able to:

- Develop revision techniques using their classroom notes and revision guides.
- Keep their folders up to date with class notes and additional work from home.
- Complete exam style questions in the classroom (personalised learning), a minimum of once a week.
- Complete one end of topic assessment and one overview assessment each term.
- Carry out a minimum of 12 required practicals over the course of 2 years (see full specification for details)

What can I do to support my child at home?

Support your child with the following:

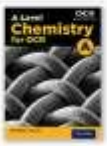
- Learning key words and definitions.
- Ensure diagnostic homework is completed.
- Ask to see their folder of notes on a regular basis.
- Discuss their current topic with them.

Recommended resources for the course:

Recommended text books can be found on the web link below and are specific to the new combined and triple science courses:

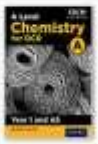
A Level Chemistry A for OCR Student Book

Textbook

Description	 Written by curriculum and specification experts, this Resource Partner Student Book supports and extends students through the new linear course while delivering the breadth, depth, and skills needed to succeed in the new A Levels and beyond. **Publication date:** July 2015
Author	Rob Ritchie and Dave Gent
ISBN	9780198351979
Publisher	Oxford University Press
Website	global.oup.com/education/product/9780198351979?region=uk

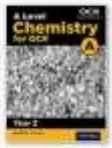
A Level Chemistry A for OCR Year 1 and AS Student Book

Textbook

Description	 This Resource Partner Student Book has been written by curriculum and specification experts for the new 2015 OCR A AS Chemistry specification. It supports students with new linear assessment, while delivering the breadth, depth and skills needed to succeed in the new A Levels and beyond. **Publication date:** January 2015
Author	Rob Ritchie, Dave Gent
ISBN	9780198351962
Publisher	Oxford University Press
Website	global.oup.com/education/product/9780198351962?region=uk

A Level Chemistry for OCR Year 2 Student Book

Textbook

Description	 Written by curriculum and specification experts and produced in collaboration with OCR, this new Resource Partner Student Book covers Year 2 of the OCR A Level Chemistry A specification. It supports students with linear assessment, develops real subject knowledge and exam skills. **Publication date:** September 2015
Author	Series Editor Rob Ritchie and Author Dave Gent
ISBN	9780198357650
Publisher	Oxford University Press
Website	global.oup.com/education/product/9780198357650?region=uk

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Website: http://www.ocr.org.uk/qualifications/as-a-level-gce-chemistry-a-h032-h432-from-2015/

Teaching Staff Contact Details			
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