



North Halifax Grammar School – A Level Transition Work

A level Chemistry

Specification

OCR GCE Chemistry

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

Course Overview

Year 1 Subject Content	Year 2 Subject Content
<p>Foundations in chemistry</p> <ul style="list-style-type: none">• Atoms, compounds, molecules and equations• Amount of substance• Acid–base and redox reactions• Electrons, bonding and structure <p>Periodic table and energy</p> <ul style="list-style-type: none">• The periodic table and periodicity• Group 2 and the halogens• Qualitative analysis• Enthalpy changes• Reaction rates and equilibrium <p>Core organic chemistry</p> <ul style="list-style-type: none">• Basic concepts• Hydrocarbons• Alcohols and haloalkanes• Organic synthesis• Analytical techniques (IR and MS)	<p>Physical chemistry and transition elements</p> <ul style="list-style-type: none">• Reaction rates and equilibrium• pH and buffers• Enthalpy, entropy and free energy• Redox and electrode potentials• Transition elements <p>Organic chemistry and analysis</p> <ul style="list-style-type: none">• Aromatic compounds• Carbonyl compounds• Carboxylic acids and esters• Nitrogen compounds• Polymers• Organic synthesis• Chromatography and spectroscopy (NMR)

Practical Endorsement

There is no coursework component to the course. You will achieve a qualification following the successful completion of practicals throughout the A level course. This is separate to your examination grade.



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Recommended Reading / Revision / Websites / Videos

A level Chemistry for OCR A (Ritchie and Dent) Oxford textbook – this book will be issued in school

CGP books

https://www.cgpbbooks.co.uk/secondary-books/as-and-a-level/science?sort=best_selling&quantity=36&page=1&view=grid¤tFilter=ExamBoard_511&filter_exam%20board=ExamBoard_511%2CExamBoard_512

Maths Made Easy website

<https://mathsmadeeasy.co.uk/a-level-chemistry-revision/#vc-infobox-icts>

Snap Revise videos

https://www.youtube.com/results?search_query=A+level+chemistry+ocr+new+specification+snap+revise

Snap Revise website - £30 for each year.

<https://snaprevise.co.uk/search?qualification=A-level&examboard=OCR>

Fuseschool videos

https://www.youtube.com/results?search_query=fuseschool+chemistry

Crash Course videos

<https://www.youtube.com/watch?v=uVFCOfSuPTo&list=PL8dPuuaLjXtPHzzYuWy6fYEaX9mQQ8oGr>

Knockhardy website

<http://www.knockhardy.org.uk/>

Chemguide website

<https://www.chemguide.co.uk/>

Transition Work

Complete the 5 'Chemsheets' on atoms, ions and bonding.

https://www.nhgs.co.uk/storage/app/media/Sixth-Form/Transition_Work/Chemistry_Chemsheets/Chemsheets-AS-1001-Atomic-Structure.pdf

https://www.nhgs.co.uk/storage/app/media/Sixth-Form/Transition_Work/Chemistry_Chemsheets/Chemsheets-AS-1002-Atoms-and-ions-1.pdf

https://www.nhgs.co.uk/storage/app/media/Sixth-Form/Transition_Work/Chemistry_Chemsheets/Chemsheets-AS-1010-Identify-the-particle.pdf

https://www.nhgs.co.uk/storage/app/media/Sixth-Form/Transition_Work/Chemistry_Chemsheets/Chemsheets-AS-1013-The-nature-of-bonds.pdf

https://www.nhgs.co.uk/storage/app/media/Sixth-Form/Transition_Work/Chemistry_Chemsheets/Chemsheets-AS-1014-Crystal-types.pdf