



## North Halifax Grammar School – A Level Transition Work

### A level Chemistry Transition Work 2020

#### Specification

OCR GCE Chemistry

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

#### Course Overview

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

#### **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.cgpbooks.co.uk/secondary-books/as-and-a-level/science?sort=best\\_selling&quantity=36&page=1&view=grid&currentFilter=ExamBoard\\_511&filter\\_exam%20board=ExamBoard\\_511%2CExamBoard\\_512](https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science?sort=best_selling&quantity=36&page=1&view=grid&currentFilter=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](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](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 worksheets included on the chemsheets page and mark them using the markschemes in the answer page. The moles workbook is there if anyone needs plenty of questions if they find this topic tricky, it is NOT necessary to complete every question in the moles booklet.

Chemsheets

<https://www.nhgs.co.uk/sixth-form/transition-work/chemsheets>

Answers

<https://www.nhgs.co.uk/sixth-form/transition-work/chemsheets/chemsheets-answers>