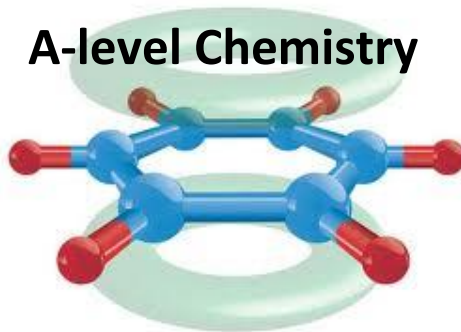


A-level Chemistry



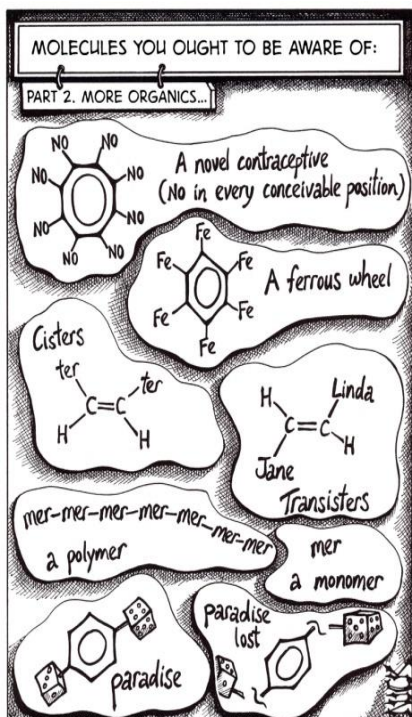
Taverham Sixth Form

Chemistry Department

Welcome to A-level Chemistry!

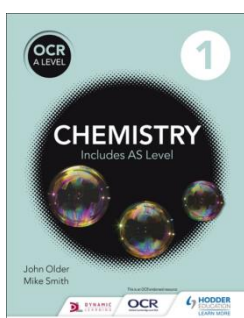
Congratulations on choosing an interesting, useful, practical subject. As well as all of these there aren't many others you get to wear a lab coat! (these are provided by the way).

To make the best start to your course please note the following :



Whatever grade you achieved at GCSE, you still have to work very hard to get a decent grade at A-level in this subject. Those of you with 7s, 8s and 9s – well done, but that is no guarantee of further success. There are many students who have achieved these grades who have then received D or E grades at the end of Year 12. There is a big jump from GCSE to A-level. Even though much of the content is repeated in the early part of the course, can you really say that you were perfect at doing everything at GCSE in science/chemistry? That's what the first part of the induction tasks is about. As well as being experts on GCSE work, you will need to understand and use new, harder ideas. It is useful for you to know about the development of ideas about atoms/chemistry. This is what Task 3 is about.

During the course you will do plenty of practical work. To prepare you for this, you need to know how to analyse and evaluate results. Task 2 is to help start you on this. The ideas in there are also needed for the practical skills questions in exam papers.



In addition, the exam questions are much tougher. See for yourself – have a look at the past papers on the exam board website (details on the course content page).

You could also buy the text book and start reading up on the new course! Text books can be purchased from the science department at a reduced rate on a first come, first served basis. Please be aware that if you are eligible for a post 16 bursary then the cost may be covered depending on family circumstances – please ask in the sixth form office for further details.

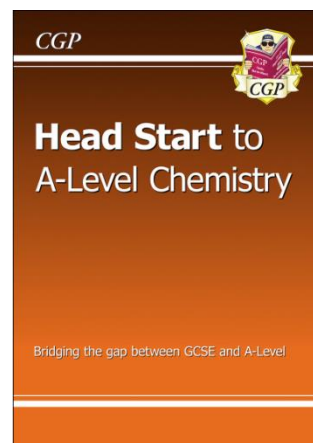
Chemistry Preparation for September

1. Purchase the following textbook:

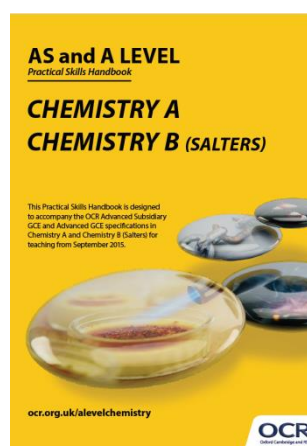
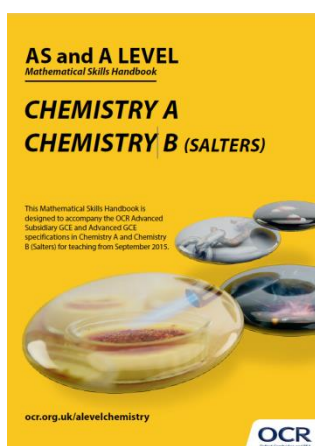
Title: Head Start to A-Level Chemistry
Publisher: CGP
ISBN: 978 1 78294 280 1
Cost: £4.95

On purchasing the book do the following:

Using the contents page identify three or four sections you lack confidence in and read up on them.



2. Compulsory: read and print the [Mathematical Skills Handbook](#) (all) and [Practical Skills Handbook](#) (Appendix 1 to 6)



You can also look at sample assessment materials, past papers etc. on the [OCR website](#)

3. Compulsory: answer and mark the questions in the chemistry calculation booklet, also available on the THS website

Please ensure you bring the completed question booklet as well as your handbooks to your first lesson in September

A-Level Chemistry Course Content

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		
Includes – atoms, compounds, molecules and equations – acid-base and redox reactions – amount of substance – electrons, bonding and structure		
Module 3 – periodic table and energy		Module 4 – core organic chemistry
Includes: – the periodic table and periodicity – Group 2 and the halogens – qualitative analysis – enthalpy changes – reaction rates and equilibrium (qualitative)		Includes: – basic concepts – hydrocarbons – alcohols and haloalkanes – organic synthesis – analytical techniques (IR and MS)
Module 5 – physical chemistry and transition elements		Module 6 – organic chemistry and analysis
Includes: – reaction rates and equilibrium (quantitative) – pH and buffers – enthalpy, entropy and free energy – redox and electrode potentials – transition elements		Includes: – aromatic compounds – carbonyl compounds – carboxylic acids and esters – nitrogen compounds – polymers – organic synthesis – chromatography and spectroscopy (NMR)

For further details in the specification for Chemistry A (H032,H432)

www.ocr.org.uk

A-Level Chemistry Assessment

Component 1	Periodic table, elements and physical chemistry	Modules 1, 2, 3 and 5
Section A	Multiple choice	15 marks
Section B	Includes: – short answer question styles (structured questions, problem solving, calculations, practical) – extended response questions	85 marks
Component 2	Synthesis and analytical techniques	Modules 1, 2, 4 and 6
Section A	Multiple choice	15 marks
Section B	Includes: – short answer question styles (structured questions, problem solving, calculations, practical) – extended response questions	85 marks
Component 3	Unified chemistry	Modules 1, 2, 3, 4, 5 and 6
Includes: – short answer question styles (structured questions, problem solving, calculations, practical) – extended response questions		70 marks

If you have any questions or queries relating to the task or the course in general, then please email Mr Large (Head of Chemistry):

p_large@taverhamhigh.org