

A-Level Chemistry

The Course

A level Chemistry provides a broad, coherent, satisfying and worthwhile course of study. It encourages you to develop a positive attitude towards chemistry and to recognise its importance in everyday life and to society. The course encourages you to develop essential knowledge and understanding of different areas of chemistry and how they relate to each other. It also demonstrates a deep appreciation of the skills, knowledge and understanding of scientific methods along with helping increase your confidence in a variety of practical, mathematical and problem solving skills. The course helps you understand how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society. Practical work is an intrinsic part of chemistry, and is greatly valued by higher education. It is imperative that your practical skills are developed throughout the course and that an investigative approach is promoted wherever possible.

Tasks

As a department, we have created a Team for you to access the 'Pre-Reading' materials. This is the most effective way for you to access materials, ask questions to staff directly before the start of your A-Level.

To join this Team please use the code: t1r5s37

Before you start your Chemistry lessons you will need to be confident in the content covered in year 10 and 11. We would like you to look at some of the following topics that were covered in year 10 and 11 and create a summary page for each topic.

The topics are:

Atomic Structure and the Periodic Table
Bonding Structure and properties
Acids, Bases and Salts
Chemical Reactions and Energy
Crude Oil, Fuels and Organic Chemistry

One of the first topics in the A level Chemistry course is "Chemical Calculations". The bulk of this is numerical work relating the mole concept to measurable quantities such as mass and volume. Below are two links to help you refresh your memory.

<https://intranet.kes.hants.sch.uk/resource.aspx?id=230628>

<https://intranet.kes.hants.sch.uk/resource.aspx?id=230629>

Pre-Course 'Reading'

Please download the **FREE KINDLE EDITION** of CGP Head Start to A-Level Chemistry from the following link:

https://www.amazon.co.uk/Head-Start-level-Chemistry-Level-ebook/dp/B00VE2NIGG/ref=sr_1_2?dchild=1&keywords=cgp+headstart&qid=1585576356&s=books&sr=1-2

Unit 1 & 2 – Bangor Revision Guide

<https://www.bangor.ac.uk/going-to-university/revision-guides/chem-en-2019>

You will use this guide for most Chemistry lessons and it is a brilliant revision tool.

WJEC Chemistry for AS Level: Student Book Paperback by Peter Blake (Author), Elfed Charles (Author), Kathryn Foster (Author)

A very brilliant guide for the content covered in AS.

WJEC Chemistry for AS: Study and Revision Guide Paperback by Peter Blake (Author), Elfed Charles (Author), Kathryn Foster (Author)

A simplified version of the content with some great practice questions.

Useful Websites

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

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