

Transition Map

Subject	A-Level Chemistry
Contact	Nick Mitchell
Email	nmitchell@utcswindon.co.uk
Exam Board	AQA
Course Outline	2 Year course covering Physical, Inorganic and Organic Chemistry units and 12 assessed practicals.
Assessment	3 papers each 2 hours long

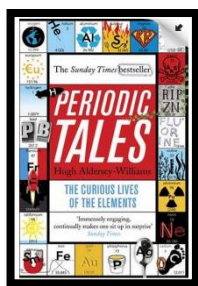
Pre-Reading List

Book Recommendations

Periodic Tales: The Curious Lives of the Elements (Paperback) Hugh Aldersey-Williams

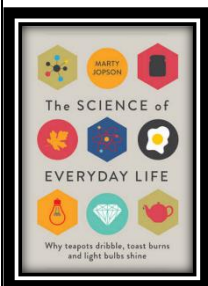
ISBN-10: 0141041455

<http://bit.ly/pixlchembook1>



This book covers the chemical elements, where they come from and how they are used. There are loads of fascinating insights into uses for chemicals you would have never even thought about.

The Science of Everyday Life: Why Teapots Dribble, Toast Burns and Light Bulbs Shine



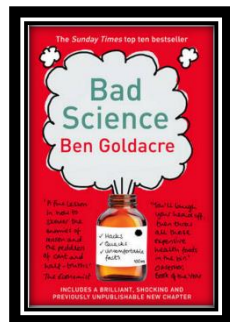
(Hardback) Marty Jopson

ISBN-10: 1782434186

<http://bit.ly/pixlchembook2>

The title says it all really, lots of interesting stuff about the things around you home!

Bad Science (Paperback) Ben Goldacre

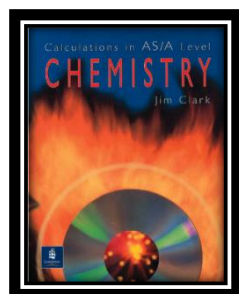


ISBN-10: 000728487X

<http://bit.ly/pixlchembook3>

Here Ben Goldacre takes apart anyone who published bad / misleading or dodgy science – this book will make you think about everything the advertising industry tries to sell you by making it sound 'sciency'.

Calculations in AS/A Level Chemistry (Paperback) Jim Clark



ISBN-10: 0582411270

<http://bit.ly/pixlchembook4>

If you struggle with the calculations side of chemistry, this is the book for you. Covers all the possible calculations you are ever likely to come across. Brought to you by the same guy who wrote the excellent chemguide.co.uk website.

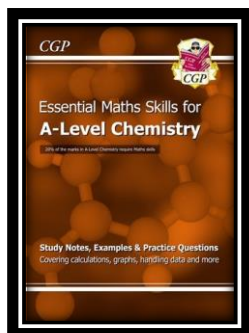
A-Level Chemistry: Essential Maths Skills (CGP). ISBN: 9781782944720

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/chemistry/cmr71-a-level-chemistry-essential-maths-skills>

In the new AS and A-Level Chemistry exams, the use of maths is required for 20% of the marks — and this brilliant book explains all the maths students will need to learn!

It covers Calculations, Units, Handling Data, Graph Skills and Geometry, with clear study notes and step-by-step examples in the context of Chemistry. And to make sure they've really got to grips with it all, there are practice questions for each topic — with answers included at the back of the book.

This book can also be bought as a standalone Online Edition

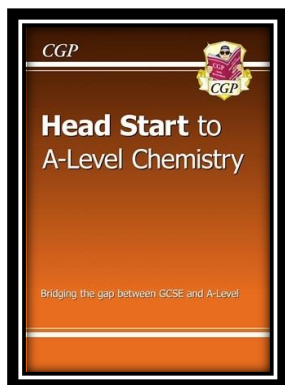



Head Start to A-Level Chemistry (CGP). ISBN: 9781782942801

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/chemistry/cbr71-head-start-to-a-level-chemistry>

This Head Start book is perfect for helping you get off to a flying start in A-Level Chemistry... and it's suitable for all exam boards! It recaps all the crucial topics you will need to remember from GCSE, with crystal-clear study notes and examples, plus practice questions to test your understanding. What's more, we've included introductions to some of the most important A-Level topics. Brilliant for preparation work over the summer before you start at sixth form!

This book can also be bought as a standalone Online Edition



<p>Useful Links</p>	<ul style="list-style-type: none"> • A-Level Chemistry Video Library (Word document with Hyper Links) • Preparing for A-Level Video Library (Word Document with Hyper Links) • Allery Chemistry: https://www.youtube.com/channel/UCPtWS4fCi25YHw5SPGdPz0g  <p style="text-align: center;">UTC Swindon: New Year 12 Transition Activities</p> <p style="text-align: center;">Dear Year 12 student,</p> <div style="text-align: center; margin-top: 20px;"> Go to this Sway </div>
<p>Key Literacy</p>	<ul style="list-style-type: none"> • Balancing equations • Naming organic Molecules • Using le Chatilliers Principle to Predict changes on equilibrium • The difference between Acids, Alkalis and Bases • Drawing Ionic and Covalent bonding in compounds • Calculations involving Moles and concentrations and percentage Yield • Titration Calculations • Limiting reactants • Atom Economy and Percentage Mass • Electrolysis Half equations
<p>Subject Specific Terminology</p>	<ul style="list-style-type: none"> • Atomic, mass, Atomic Number & Isotopes • Group Trends • Periods • Oxidations Numbers • Ion Formation • Molecular and Empirical Formulae • Polarity & Intermolecular Bonding • Ionic, Covalent & Metallic Bonding • Small & Giant Covalent Molecules • Bond Enthalpies • Exothermic and Endothermic reaction profiles • Percentage Yield • Ionisation Energies • Organic Molecules: Alkane, Alkenes, carboxylic Acids, Esters, Alcohols, Polymers (addition and condensation)
<p>Activities to complete before Joining</p>	<p>Complete the Transition Pack for A-Level Chemistry</p>