



**Revision Guidance**

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**Course Details.**

The chemistry course you are studying is with **AQA** and the qualification is made up of three different units.

You will take the full A-level at end of year 13 in the summer of 2021. There will be no option to take any AS exams. The three units you will study are outlined below with further details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Paper** | **Topics** | **Length/ Time** | **Marks** | **Worth** |
| **Paper 1**  | Physical and inorganic chemistry, including relevant practical skills | 2 hours | 105 | 35% of your final grade |
| **Paper 2** | Physical and organic chemistry,including relevant practical skills | 2 hours  | 105 | 35% of your final grade |
| **Paper 3** | Any content, including relevant practical skills | 2 hours  | 90 | 30% of your final grade |

**Exam Dates.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paper** | **Topics** | **Length/ Time** | **Marks** | **Worth** | **Exam Date** |
| **Paper 1**  | Physical and inorganic chemistry, including relevant practical skills | 2 hours | 105 | 35% of your final grade | 07 June 2021 am  |
| **Paper 2** | Physical and organic chemistry,including relevant practical skills | 2 hours  | 105 | 35% of your final grade | 14 June 2021 pm |
| **Paper 3** | Any content, including relevant practical skills | 2 hours  | 90 | 30% of your final grade | 21 June 2021 am |

**Topics**

**Paper 1 Physical and inorganic chemistry topics**

Atomic Structure

Amount of Substance

Bonding

Energetics

Chemical Equilibria, Le Chatelier’s Principle and Kc

Oxidation, reduction and redox

Thermodynamics

Equilibrium constant Kp

Electrode potentials and electrochemical cells

Acids and bases

Periodicity

Group 2 the alkaline earth metals

Group 7 the halogens

Properties of period 3 elements and their oxides

Transition metals

Reactions of ions in aqueous solutions

**Paper 2 Physical and organic topics**

Amount of substance

Bonding

Energetics

Kinetics

Chemical Equilibria, Le Chatelier’s Principle and Kc

Rate equations

Introduction to organic chemistry

Alkanes

Halogenoalkanes

Alkenes

Alcohols

Organic analysis

Optical isomerism

Aldehydes and ketones

Carboxylic acids and derivatives

Aromatic chemistry

Amines

Polymers

Amino acids, proteins and DNA

Organic synthesis

NMR spectroscopy

Chromatography

**Textbooks and Revision Guides.**

To support your revision you may wishto buy your own you are advised to buy the following textbooks:

AQA Chemistry A-level Student Book: Ted Lister, Janet Renshaw: Oxford University Press · Paperback · 558 pages · ISBN 019835182-5

Available through Amazon



 **Websites and Additional Reading**

If you are a student wishing to expand your chemistry knowledge further, you need to go beyond your class textbooks. Below is a list of websites and books that may be of interest to you.

**Web-sites**

RSC Chemistry resources for teachers: Learn Chemistry

S-cool, the revision website: A Level Chemistry Revision

Chemguide: Helping you to understand Chemistry

ChemGym: Quizzes for learning and revising A level Chemistry

Twitter: @ChemistryALevel

The Royal Society: Invigorate

TES Connect: Secondary teaching resources

**Additional Reading**

The Pleasure of Finding Things Out - Richard Feynman

Periodic Tales - Hugh Aldersey-Williams

The Disappearing Spoon - Sam Kean

Uncle Tungsten - Oliver Sachs

The Shocking History of Phosphorus: A Biography of the Devil’s Element - John Emsley

New Scientist Magazine

  **Apps**

**For organising your revision:**

|  |  |  |
| --- | --- | --- |
| **Get Revising** | **Study Blue** | **Quizlet** |
|  |  |  |
| https://getrevising.co.uk/ | https://www.studyblue.com/ | https://quizlet.com/en-gb |

**Revision App:**



Gojimo is a useful revision app that has been developed by the Telegraph. It has mostly free content but some you do need to pay for.

http://www.gojimo.com/a-level-chemistry-revision