



Periodic Table of the Elements

Legend:

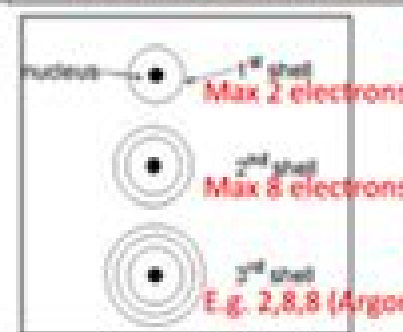
- metals
- non-metals
- metalloids
- transition metals
- alkali metals
- alkaline earth metals
- halogens
- noble gases
- lanthanoids
- actinoids

An atom:
Number of Protons = Number of Electrons
Mass number = Protons + Neutrons

C2 Chemistry

Periodic table arranges elements by **ATOMIC NUMBER** (proton number/the small one)

The number of outer shell electrons match the group the element is found in.
E.g. Lithium 2,1 is a group 1 element.

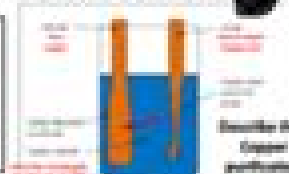


Protons and neutrons both have a mass of 1

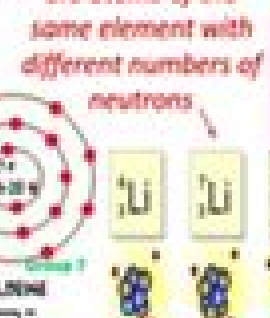
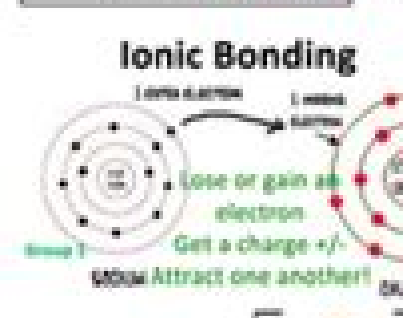
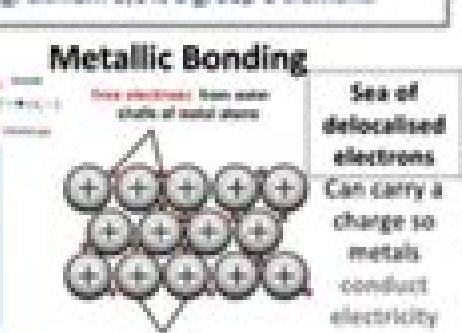
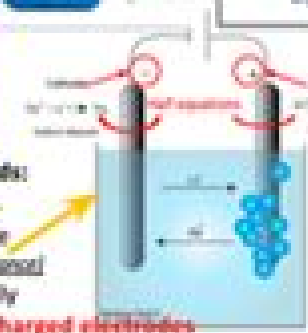
ISOTOPES
are atoms of the same element with different numbers of neutrons

OIL RIG

Oxidation is loss (of electrons)
Reduction is gain (of electrons)



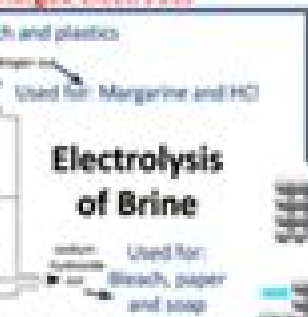
Electrolysis:
Splitting up a substance using electricity



When there are 2 possible products
The less reactive forms at the electrode

Electrolysis needs:

- 2 electrodes
- An electrolyte (ionic or molten substance)
- A power supply



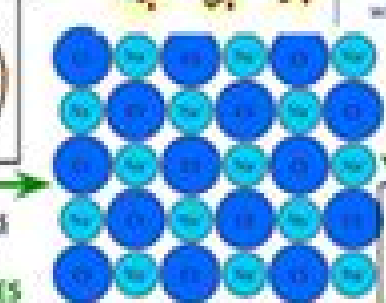
Metal ions only arranged in layers
ELECTROSTATIC ATTRACTION between +IONS and ELECTRONS

Metal ions slide over one another making them **MALLEABLE**

Metals conduct **HEAT** well

Giant Lattice Structure

Always metals with non-metals
+ ION and - ION attracted by **STRONG ELECTROSTATIC FORCES**



As a solid: High melting and Boiling Point
Conducts electricity when melted or dissolved:
ions move freely and carry a charge

NANO-TECHNOLOGY
Means **REALLY REALLY REALLY** small!!!!

Aqa Gcse Chemistry Revision

Andrew Catterall



Aqa Gcse Chemistry Revision :

AQA GCSE Chemistry Kate Gathercole,2011-09 Packed full of GCSE style questions to test understanding this AQA Chemistry revision and classroom companion is designed to help students revise everything they need to know and familiarise themselves with the types of questions that they may come across in the exam Endorsed by AQA this Chemistry revision and classroom companion provides in depth coverage of all the externally assessed course content for the GCSE AQA course Clear explanations and supporting diagrams ensure understanding and help students to prepare for the exam with confidence Included in this book in depth coverage that provides everything required for thorough exam preparation detailed explanations and diagrams to help consolidate and build on knowledge throughout the course clear design and direct references to the specification to provide structured revision and maximum assurance separate units differentiated by colour and labelling topic summaries provide at a glance topic overviews exam style questions at the end of each unit How Science Works overview **AQA GCSE Chemistry** ,2011 *Aqa Gcse Chemistry Revision Exam Practice Student Book* Sue Orwin,2020-07-16 Supports students preparing for AQA GCSE 9 1 2016 spec exams **Essentials - AQA GCSE Chemistry** Dan Evans,2011 *AQA GCSE Chemistry* Dan Evans,2011-09-01 This guide covers all the exam assessed content on the AQA Chemistry specification It is designed to help students get the most out of their revision Information is broken down into manageable chunks key words and phrases are highlighted for last minute recaps and higher tier material is clearly differentiated on the page **AQA GCSE 9-1 Chemistry Revision Guide: Ideal for the 2024 and 2025 exams (Collins GCSE Grade 9-1 Revision)** Collins GCSE,2020-09-01 Exam Board AQA Level GCSE Grade 9 1 Subject Chemistry First Teaching September 2016 First Exams June 2018 Suitable for the 2020 autumn and 2021 summer exams **Revision Plus - AQA GCSE Chemistry** Kate Gathercole,2011 Gcse Aqa Chemistry Christine Horbury,2006-06 This revision guide provides in depth coverage of all the externally assessed course content for GCSE AQA Chemistry This book can be used to support study throughout the course and as a revision aid in the build up to exams In depth coverage provides everything required for thorough exam preparation Detailed explanations and diagrams help consolidate and build on knowledge throughout the course Clear design and direct references to the specification provide structured revision and maximum assurance This revision guide provides in depth coverage of all the externally assessed course content for GCSE AQA Chemistry This book can be used to support study throughout the course and as a revision aid in the build up to exams In depth coverage provides everything required for thorough exam preparation Detailed explanations and diagrams help consolidate and build on knowledge throughout the course Clear design and direct references to the specification provide structured revision and maximum assurance **New AQA Science GCSE Chemistry Revision Guide** John Scottow,2014-11 Following the latest AQA GCSE Science specifications this Revision Guide uses an accessible and concise approach to recap the essential knowledge students need to succeed A checklist at the end of each unit clearly lists what

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