

Metal oxides and hydroxides

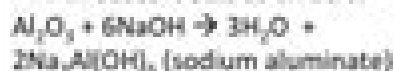
Alumina (aluminum oxide)

- Amphoteric – reacts with acids and bases.

- With acids it acts as a base:



- With bases it acts as an acid:



Alumina is unreactive, uses of it include paint, sunscreens, and chromatography.

Group 1 and 2 metal oxides

- Basic due to the small size of the oxide ion

- Group 1/2 metal oxides + water → metal hydroxides:

Group 1 eg:



Used to make plastics and soap

Group 2 eg:



Used to neutralise acidic soil

Other uses

$\text{Mg}(\text{OH})_2$ – indigestion

$\text{Ca}(\text{OH})_2$ – used to treat acidic effluent from factories:



Properties and uses of substances 1



Key terms

Acid – a compound that releases H^+ ions when it dissociates (breaks up)

Base – a compound that reacts with acids

Alkali – a soluble base that releases OH^- in water

Amphoteric – a compound that can behave as an acid or a base

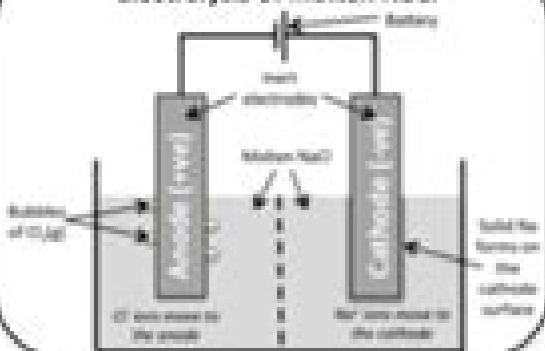
Electrolysis – breaking down of a compound using electricity

BTEC Applied Science Unit 5 - Chemistry

Electrolysis

An electrical current must be able to flow, so electrolysis only works when compounds are either molten or dissolved

Electrolysis of molten NaCl



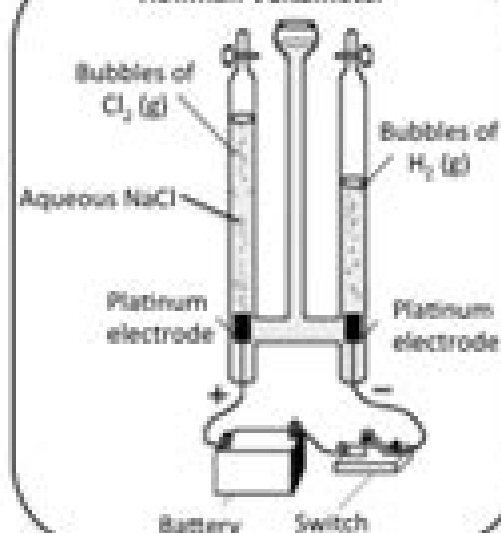
Predicting products in aqueous electrolysis

In molten electrolysis there is only one +ve ion and one -ve ion, so predicting products is easy. In aqueous solution there are also H^+ and OH^- ions, so we must predict which +ve and which -ve ion will discharge.

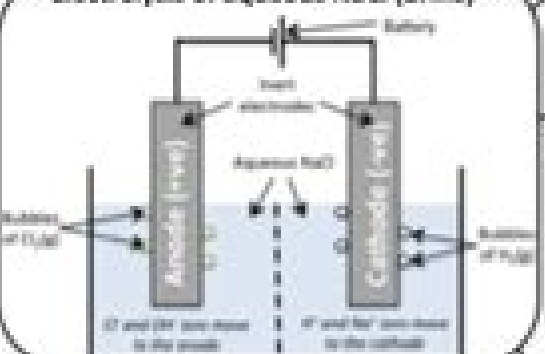
Factors affecting which ion is discharged:

- Reactivity – more reactive will discharge
- Concentration – more concentrated discharge
- Position in the electrochemical series (+ve ions only) – lower in the series (higher/more positive standard electrode potential) more likely to discharge

Hoffman Voltmeter



Electrolysis of aqueous NaCl (Brine)



Specialised cells – H_2 and Cl_2 are explosive when mixed, and Cl_2 also reacts with NaCl so the products must be separate during the process

Membrane cell

Has a polymer membrane that only allows positive ions to pass through. Na^+ ions pass through but not Cl^- ions.

Membrane cell

Has a diaphragm made of a porous mixture of asbestos and polymers. $\text{NaCl}(\text{aq})$ is added on one side and NaOH is made on the other. The level on the brine side is kept higher so it does not flow back and mix with the $\text{Cl}_2(\text{g})$.

Uses of brine electrolysis products

NaOH – used in food processing and removing pollutants during paper manufacture

H_2 – used to make HCl and also as a fuel

Cl_2 – used as a disinfectant and to make plastics

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none



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a Global Context Meira Levinson,Tatiana Geron,Sara O'Brien,Ellis Reid,2024-11-14 How do we reconcile individual student needs with the demands of school district and national education programs What are school based professionals to do in situations where it is impossible to prioritize all students equally A pair of new parents in Hong Kong deliberate which schooling model best fulfils the hopes and dreams they have for their children An administrator in Germany deliberates whether to accept funding for a hybrid learning program as her staff and students share their conflicting experiences of online learning From national policy to personal choices each of these ethical dilemmas engages questions of educational equity Educational Equity in a Global Context presents eight case studies designed to guide readers through complex and nuanced conversations about dilemmas of educational equity and ethics around the world The case studies include conversations on student grading in the Covid 19 pandemic the risks and rewards of online learning equitable homework policies and refugee education Each case is followed by a model conversation among diverse participants based in Australia Germany Hong Kong Kenya Mexico the UK and the USA The participants include scholars activists teachers students parents and community leaders from across the political spectrum Each chapter includes discussion questions and suggestions for further reading Readers will come away from this collection with the resources and capacities to deliberate about dilemmas of educational ethics in their own contexts and work towards a more equitable future for students around the globe More

case studies and resources can be found at justiceinschools.org **Schooling Inequality** Jessie Abrahams, 2024-03-20 Drawing on unique new research gathered from three contrasting secondary schools in England this book explores the aspirations opportunities and experiences of young people from different social class backgrounds against a backdrop of continuing inequalities in education *Which School?*, 1988 **New Scientist**, 1994 *Young People's Intentions to Enter Higher Education* Bob Redpath, Barbara Harvey, 1987 **A-Z of Careers and Jobs** Irene Krechowiecka, Jan Poynter, 2004 Praise and Reviews A detailed look at different types of careers and jobs a helpful book for those about to enter the world of work or for anyone considering a career change Jobhunters Guide The perfect starting point for students and schools leavers Education and Training Facts and advice on over 300 jobs The ideal aid to job hunting on the Internet Full details of qualifications and entry routes to key professions Current salary ranges for each job Full contact details for governing bodies and associations for each career Up to date website addresses and sources of further information Already acclaimed as the most reliable guide available this new edition of The A Z of Careers and Jobs brings a wealth of new resources to help when making vital career decisions As well as expanded entries on all the most popular careers it now provides comprehensive coverage on the new opportunities of the digital economy [High Impact Practices in Higher Education](#) Enakshi Sengupta, 2023-09-27 Collating various case studies policies and other real world research this book examines effective high impact learning practices and demonstrates approaches that promote learning communities and common intellectual experiences [Independent Schools Yearbook 2012-2013](#) none, 2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council's Associations HMC GSA The Society of Heads IAPS ISA and COBIS **British Qualifications** Kogan Page, 2004 In a single volume the new edition of this guide gives comprehensive coverage of the developments within the fast changing field of professional academic and vocational qualifications career fields their professional and accrediting bodies levels of membership and qualifications and is a one stop guide for careers advisors students and parents It should also enable human resource managers to verify the qualifications of potential employees **New Scientist and Science Journal**, 1994

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