









WELCOME

Resources Link is an e-resource, provided by OCR, for teachers of OCR qualifications. It provides descriptions of, and links to, a variety of independent teaching and learning resources that you may find helpful.

In Resources Link you will find details of independent resources, many of which are free: where this is the case this has been indicated.

If you know of other resources you would like to see included here, or discover broken links, please let us know. We would also like to hear from you if have any feedback about your use of these, or other, OCR resources. Please contact us at resources.google.com.

We leave it to you, as a professional educator, to decide if any of these resources are right for you and your students, and how best to use them.

To give us feedback on, or ideas about the OCR resources you have used, email resourcesfeedback@ocr.org.uk

OCR Resources: the small print

OCR's resources are provided to support the teaching of OCR specifications, but in no way constitute an endorsed teaching method that is required by the Board and the decision to use them lies with the individual teacher. Whilst every effort is made to ensure the accuracy of the content, OCR cannot be held responsible for any errors or omissions within these resources.

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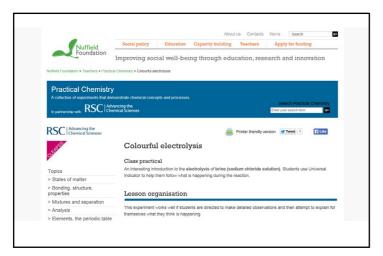








Colourful electrolysis



An interesting introduction to the electrolysis of brine (sodium chloride solution). Students use Universal Indicator to help them follow what is happening during the reaction.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able

to describe why a chemical process and its location are chosen'

Cost: Free

Format: Web-page with download

http://www.nuffieldfoundation.org/practical-chemistry/colourful-electrolysis

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at

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Bulk and fine chemicals





Two videos about the bulk and fine chemical production.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able to describe why a chemical process and its location are chosen'

Cost: Free

Format: Video's

http://media.rsc.org/alchemy/videos/sa.mpg

http://media.rsc.org/alchemy/videos/mm.mpg

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Virtual tour – Ethanol production



A virtual tour - includes short video clips of every stage in the production of ethanol.

OCR Level 2 Cambridge Technical Certificate/Extended Certificate/ Supports:

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able

to describe why a chemical process and its location are chosen'

Cost: Free

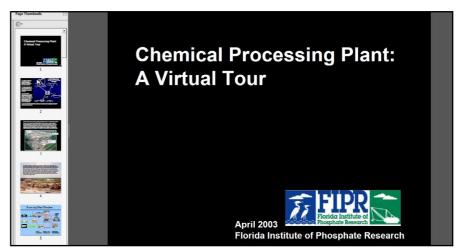
Web-page with interactive videos Format:

http://english.unica.com.br/virtual-mill/video-new/virtual-mill.htm

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Chemical Processing Plant: A Virtual Tour



This is a pdf/PowerPoint presentation with detailed instructions as to how chemicals are produced on an industrial scale.

OCR Level 2 Cambridge Technical Certificate/Extended Certificate/ Supports:

> Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able to describe why a chemical process and its location are chosen'

Cost: Free

Web-page Format:

http://www.fipr.state.fl.us/pondwatercd/chemical_processing_tour.pdf

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Fermentation of glucose using yeast



This is a detailed practical investigation into the fermentation of glucose using yeast.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able

to describe why a chemical process and its location are chosen'

Cost: Free

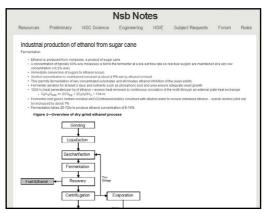
Format: Web-page with download

http://www.nuffieldfoundation.org/practical-chemistry/fermentation-glucose-using-yeast

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This page provides detailed information about the conditions required for the reaction to occur, processes/ stages of production of ethanol and scientific theory.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able to describe why a chemical process and its location are chosen'

Cost: Free

Format: Web-page with download

http://nsb.wikidot.com/c-9-2-3-12

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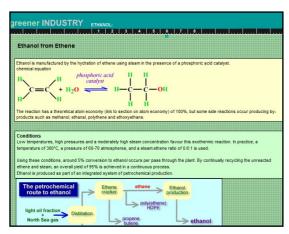








Production of ethanol from ethene



This page provides detailed information about the conditions required for the reaction to occur, processes/ stages of production of ethanol and scientific theory.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able

to describe why a chemical process and its location are chosen'

Cost: Free

Format: Web-page with download

http://www.greener-industry.org.uk/pages/ethanol/ethanol6PM1.htm

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Video of fermentation



Howstuffworks video, explaining the uses of fermentation to create a wide range of products.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able to describe why a chemical process and its location are chosen'

Cost: Free

Format: Web-page with download

http://videos.howstuffworks.com/discovery/34874-howstuffworks-show-episode-5-fermentation-video.htm

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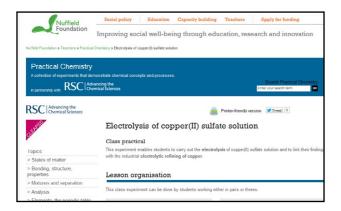








Electrolysis of copper(II) sulfate solution



Practical instructions to enable learners to carry out the electrolysis of copper(II) sulfate solution and to link their findings with the industrial electrolytic refining of copper.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able

to describe why a chemical process and its location are chosen'

Cost: Free

Format: Web-page

http://www.nuffieldfoundation.org/practical-chemistry/electrolysis-copperiisulfate-solution

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Batch and continuous processing



Explanation of Batch and continuous processing.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able

to describe why a chemical process and its location are chosen'

Cost: Free

Format: Web-page

http://www.bbc.co.uk/schools/gcsebitesize/science/add_gateway_pre_2011/chemical/batchcontinuousrev1.shtml

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Ions in solution - Electrolysis activity



BBC Bitesize activity based on electrolysis. Useful for student only use or as an interactive tool within lesson.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO1 'Be able to describe why a chemical process and its location are chosen'

Cost: Free

Format: Animation/activity

http://www.bbc.co.uk/schools/gcsebitesize/science/21c/chemicals_in_our_lives/manufacture_chemicalsact.shtml

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Investigating the Effect of Concentration on the Rate of a Chemical Reaction



Practical details to investigate the effect of concentration on the reaction.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: Web-page with download

http://www.nationalstemcentre.org.uk/elibrary/resource/9578/investigating-the-effect-of-concentration-on-the-rate-of-a-chemical-reaction

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Burning milk powder - the effect of surface area on reaction rate



Short video clip 'Burning milk powder, accompanied with teacher notes.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

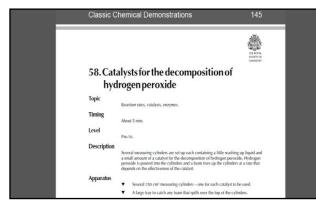
Format: Web-page with download

http://www.rsc.org/Education/Teachers/Resources/Practical-Chemistry/Videos/ surface-area-on-reaction-rate.asp

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resources feedback @ ocr. org. uk

Catalysts for the decomposition of hydrogen peroxide



Practical details about the decomposition of hydrogen peroxide.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: Web-page with download

http://www.rsc.org/images/catalysts_tcm18-188821.pdf

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Sulfuric acid and the Contact process



Video clip describing the manufacture of sulfuric acid using the Contact process.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

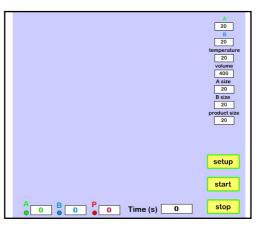
Format: Web-page with download

http://www.youtube.com/watch?v=_zj3bMjFcIA

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Collision Theory



This web-page provides an easy to manipulate animation of collision theory.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: Web-page

http://www.kscience.co.uk/animations/collision.htm

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at













Collision theory and rates of reaction



An animated video designed to describe collision theory and what factors affect rates of reaction

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free from the BBC

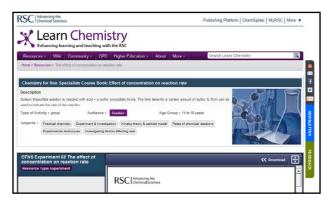
Format: Video clip/animated film

http://www.bbc.co.uk/learningzone/clips/collision-theory-and-rates-of-reaction/10668.html

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Rate of reaction - the effects of concentration on reaction rate



RSC practical investigation into the effect of concentration on rate of reaction. List of equipment/chemicals required, method to follow, health and safety issues and teacher notes to aid in the delivery of this task.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: Web-page

http://www.rsc.org/learn-chemistry/resource/res00000743/the-effect-of-concentration-on-reaction-rate?cmpid=CMP00000821

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at













Investigating the Rate of Reaction Between Marble Chips (Calcium Carbonate) and Hydrochloric Acid



Practical investigation into the rate of reaction between marble chips and hydrochloric acid.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

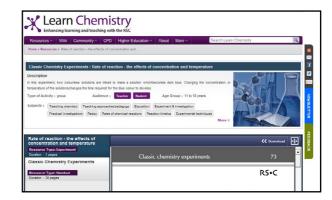
Format: Web-page

http://www.studymode.com/essays/Investigating-The-Rate-Of-Reaction-Between-1115998.html

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Rate of reaction – the effects of concentration and temperature



RSC practical investigation into the effect of concentration and temperature on rate of reaction.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: Web-page

http://www.rsc.org/learn-chemistry/resource/res00000413/rate-of-reaction-the-effects-of-concentration-and-temperature? cmpid=CMP00000483

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BBC Bitesize - Ammonia and the Haber process



Details the stages in the production of ammonia.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

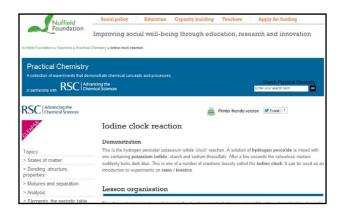
Format: Web-page

http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/chemreac/energychangesrev3.shtml

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resourcesfeedback@ocr.org.uk

lodine clock reaction



RSC practical investigation into the effect of catalysts on the rate of reaction.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: Web-page

http://www.nuffieldfoundation.org/practical-chemistry/iodine-clock-reaction

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at





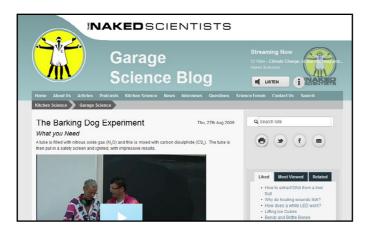








The Barking Dog Experiment



This web page contains a video that could be used to introduce the effect of pressure on the rate of reaction.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

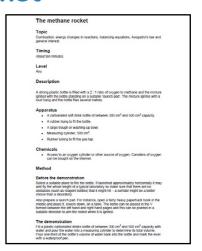
Format: Web-page

http://www.thenakedscientists.com/HTML/content/kitchenscience/garage-science/exp/the-barking-dog-experiment/

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resourcesfeedback@ocr.org.uk

The methane rocket



Practical task to test the effect of pressure using a variety of different ratios of gases to see which one creates the most pressure and allows the rocket to travel the furthest distance.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2 'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: PDF

http://www.rsc.org/images/methanerocket_tcm18-188848.pdf

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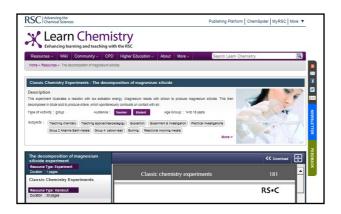








The decomposition of magnesium silicide



An experiment to illustrate a reaction with low activation energy.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' LO2

'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

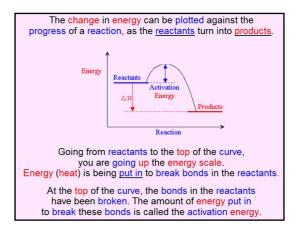
Format: Web-page

http://www.rsc.org/learn-chemistry/resource/res00000456/the-decomposition-of-magnesium-silicide

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Rates of reaction - Activation energy



Explanation of activation energy.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO2

'Be able to describe the factors that govern the rate and yield of a

chemical process'

Cost: Free

Format: Web-page

http://www.gcsescience.com/rc24-energy-level-diagram.htm

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The Case of the Sulphuric Acid Plant



Video clip about the contact process.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' LO3

'Know how waste treatment methods can be used to minimise the

environmental impact of a chemical process'

Cost: Free

Format: Video

http://www.youtube.com/watch?v=r7XdRMNXVgM

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Ammonia video



You tube video created by the RSC – detailing the production of ammonia by the Haber process. Explanation of the stages of production, chemicals involved, uses of the products created in the reaction.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO3

'Know how waste treatment methods can be used to minimise the

environmental impact of a chemical process'

Cost: Free

Format: Web-page

http://www.youtube.com/watch?v=wiwl4eoHbig

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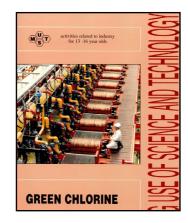








Green chlorine - Electrolysis of brine



This pdf document includes practical work that will enable students to carry out electrolysis within a laboratory setting. There are clear instructions for three methods that link to industry and the key scientific information that both the student and teacher will require in order to fully understand the processes.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO3

'Know how waste treatment methods can be used to minimise the

environmental impact of a chemical process'

Cost: Free

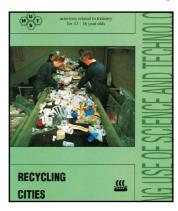
Format: Web-page based PDF document

http://www.ciec.org.uk/2%20Topic%20Bank/texts/GreenChlorine.pdf

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resources feedback @ ocr. org. uk

Recycling Cities – The production and management of waste for polymers



This pdf document contains information about practical tasks related to the production and management of waster for polymers. Technicians notes are provided and teacher delivery notes to enable the successful delivery of each task.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO3

'Know how waste treatment methods can be used to minimise the

environmental impact of a chemical process'

Cost: Free

Format: Web-page with PDF downloads

http://www.ciec.org.uk/2%20Topic%20Bank/texts/RecyclingCities.pdf

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Leblanc Process



Short video clip detailing the reactants, products, waste, pollution produced from the Leblanc process – which is the method used to produce alkali's in industry.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO3

'Know how waste treatment methods can be used to minimise the

environmental impact of a chemical process'

Cost: Free

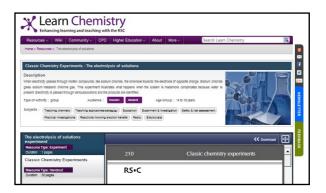
Format: Video

http://www.youtube.com/watch?v=6XJ1ywiuj6U

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resources feedback @ ocr. org. uk

The electrolysis of solutions



RSC practical investigation of the electrolysis of solutions.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO3

'Know how waste treatment methods can be used to minimise the

environmental impact of a chemical process'

Cost: Free

Format: Web-page

http://www.rsc.org/learn-chemistry/resource/res00000466/the-electrolysis-of-solutions?cmpid=CMP00000536

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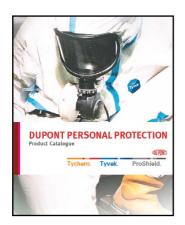








Du pont safety clothing



This is a product catalogue for safety clothing. The clothing is clearly labelled with benefits and coding system that identifies which chemicals/substances it is suitable to wear when handling.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO4

'Know how the chemical industry maintains a good safety record in

the manufacture and transport of chemicals'

Cost: Free

Format: PDF - Web-page

http://www2.dupont.com/Personal_Protection/en_GB/assets/PDF/LIT_EN_DPP_Catalogue.pdf

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resources feedback @ ocr. org. uk

Ammonia fountain



Practical Investigation/demonstration – to engage students and show the uses/reactions that take place with ammonia.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO4

'Know how the chemical industry maintains a good safety record in

the manufacture and transport of chemicals'

Cost: Free

Format: Web-page

http://www.nuffieldfoundation.org/practical-chemistry/ammonia-fountain

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at





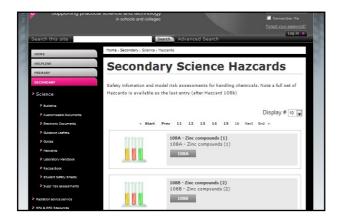








CLEAPPS Hazcards



Hazcards for all of the chemicals that are used in the school laboratory and in industrial production. Health and safety details, first aid treatment, appropriate storage and handling of the chemicals

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO4

'Know how the chemical industry maintains a good safety record in

the manufacture and transport of chemicals'

Cost: Free

Format: Web-page

http://www.cleapss.org.uk/secondary/secondary-science/hazcards?start=150

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at

resources feedback @ ocr. org. uk

Laboratory spill response



Video clip detailing the correct procedures for handling chemical spillages in industry.

Supports: OCR Level 2 Cambridge Technical Certificate/Extended Certificate/

Diploma in Science - Unit 10 'Chemistry of Production' - LO4

'Know how the chemical industry maintains a good safety record in

the manufacture and transport of chemicals'

Cost: Free

Format: Video

http://www.youtube.com/watch?v=Dtp9vT15qls

If you know of any resources that you think should appear here, or if you identify broken links please let us know. We would also like to hear from you with your feedback about your use of any of the resources listed here. Please contact us at













Resources Index

click on a resource to go to the appropriate page.

LO1 - Be able to describe why a chemical process and its location are chosen

- Colourful Electrolysis
- Bulk and fine chemicals
- Virtual tour Ethanol production
- Chemical Processing Plant A Virtual
 Tour
- Fermentation of glucose using yeast
- Industrial production of ethanol from sugar cane
- Production of ethanol from ethene
- Video of fermentation
- Electrolysis of copper(II) sulfate solution
- Batch and continuous processing
- lons in solution Electrolysis activity

LO2 - Be able to describe the factors that govern the rate and yield of a chemical process

- Investigating the Effect of Concentration
 on the Rate of a Chemical Reaction
- Burning milk powder the effect of surface area on reaction rate
- Catalysts for the decomposition of hydrogen peroxide
- Sulfuric acid and the Contact process
- Collision Theory
- Collision theory and rates of reaction
- Rate of reaction the effects of concentration on reaction rate
- Investigating the Rate of Reaction
 Between Marble Chips (Calcium
 Carbonate) and Hydrochloric Acid
- Rate of reaction The effects of concentration and temperature

Resources Index

click on a resource to go to the appropriate page.

- BBC Bitesize Ammonia and the Haber process
- lodine clock reaction
- The Barking Dog Experiment
- The methane rocket
- The decomposition of magnesium silicide
- Rates of reaction Activation energy

LO3 - Know how waste treatment methods can be used to minimise the environmental impact of a chemical process

- The Case of the Sulphuric Acid Plant
- Ammonia video
- Green chlorine Electroysis of brine
- Recycling Cities The production and management of waste for polymers
- Leblanc Process
- The electrolysis of solutions

LO4 - Know how the chemical industry maintains a good safety record in the manufacture and transport of chemicals

- Du pont safety clothing
- Ammonia fountain
- CLEAPPS Hazcards
- Laboratory spill response







OCR Oxford Cambridge and RSA