



RESOURCES LINK - R071

VERSION 1 JULY 2012



SCIENCE
Level 1/2

WELCOME

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

In Resources Link you will find details of OCR's own support materials along with information about publisher partner, endorsed and other independent resources.

Where appropriate, we have mapped the resources to the OCR specifications, and provided information about their cost and format.

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 you have any feedback about your use of these, or other, OCR resources. Please contact us at resourcesfeedback@ocr.org.uk

Types of Resource

OCR Produced Resources

These are resources devised and produced directly by the Resources Development Team at OCR.

Publisher Partner Resources

For many subjects OCR works with a publisher partner to ensure that good quality resources such as textbooks are available for first teaching.

Whilst the publisher partner has access to our subject experts and we quality check and endorse these resources they are produced by, and remain the property of, the publisher partner. There is no financial link between OCR and its publisher partners and we do not pay for the development of, or receive any royalties from, these resources.

Endorsed Resources

These resources were produced entirely independently of OCR, but we have quality checked them for their suitability as a resource to support our qualifications.

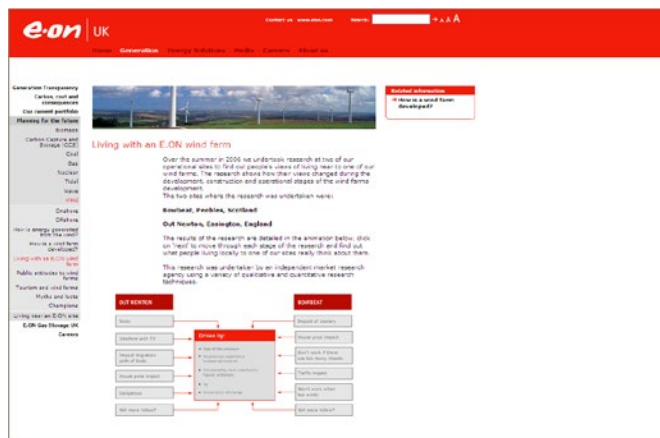
Other Resources

Unless specifically stated these resources are completely independently produced and are not endorsed by OCR. We have looked at them though, and we think they could be useful in supporting our specifications.

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.

You can now [click here](#), if you want to see an index of all resources mapped to subject topics, or alternatively flick the bottom right-hand corner of the page to start browsing.

Living with an EON wind farm



People's views of living near to one of E.ONs wind farms

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

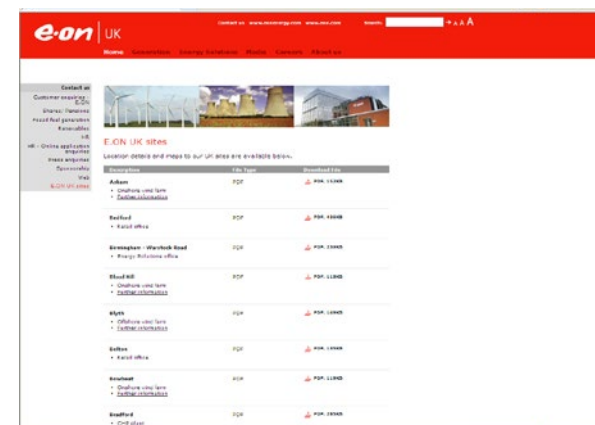
Cost: Free

Format: Website
www.eon-uk.com/generation/livingwithaneonwindfarm.aspx

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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EON UK sites



Description of the different power stations run by EON, with images and data

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

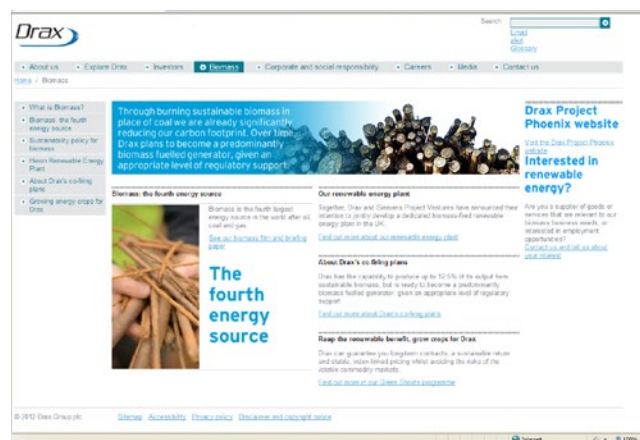
Cost: Free

Format: Website
www.eon-uk.com/ContactForms/1283.aspx

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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The fourth energy source



Description of Drax's biomass power station

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website

www.draxgroup.plc.uk/biomass/

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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Meeting the Energy Challenge



A government white paper on Nuclear Power

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

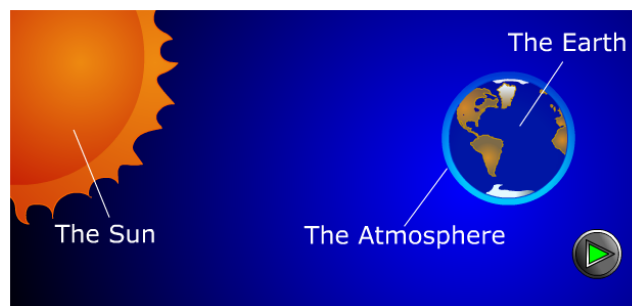
Format: Can be downloaded as a PDF from the website

www.official-documents.gov.uk/document/cm72/7296/7296.pdf

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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Global Warming and the Greenhouse Effect



Explanation of the effects of global warming

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Animation accessed via the website
<http://earthguide.ucsd.edu/earthguide/diagrams/greenhouse/>

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Overview of the Greenhouse Effect



Explanation of the greenhouse effect

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

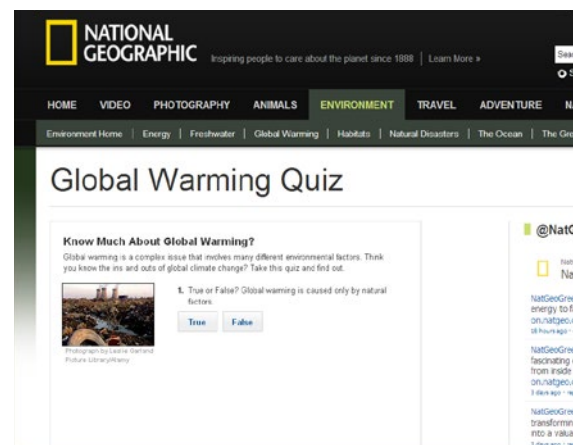
Cost: Free

Format: Interactive webpage
<http://environment.nationalgeographic.com/environment/global-warming/gw-overview-interactive/>

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Global Warming Quiz



Interactive quiz about global warming

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Interactive webpage
<http://environment.nationalgeographic.com/environment/global-warming/quiz-global-warming>

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Harness the Power of Wind



Description of a wind turbine and how altering conditions produce different amounts of energy

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Interactive webpage
<http://environment.nationalgeographic.com/environment/global-warming/wind-power-interactive/>

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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Wind Power



Explanation of wind power with an image

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website

<http://environment.nationalgeographic.com/environment/global-warming/wind-power-profile/>

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Solar Power



Explanation of solar power with an image

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

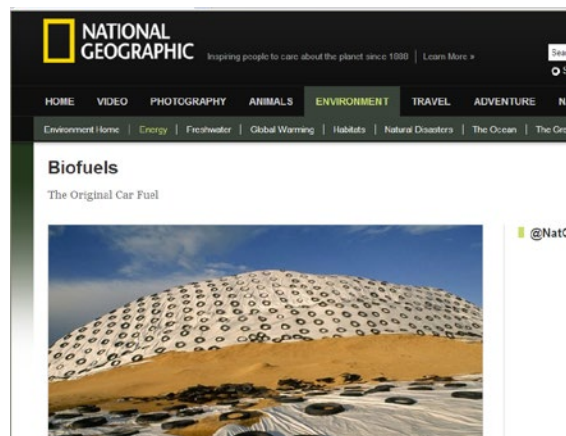
Format: Website

<http://environment.nationalgeographic.com/environment/global-warming/solar-power-profile/>

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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Biofuels



Explanation of biofuels with facts and image

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website
<http://environment.nationalgeographic.com/environment/global-warming/biofuel-profile/>

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The Great Energy Quiz



Interactive quiz on biofuels

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Interactive webpage
<http://environment.nationalgeographic.com/environment/energy/great-energy-challenge/biofuel-quiz/>

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Hydropower



Explanation of hydropower with facts and image

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website
<http://environment.nationalgeographic.com/environment/global-warming/hydropower-profile/>

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The Great Energy Challenge



Quiz about carbon capture

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

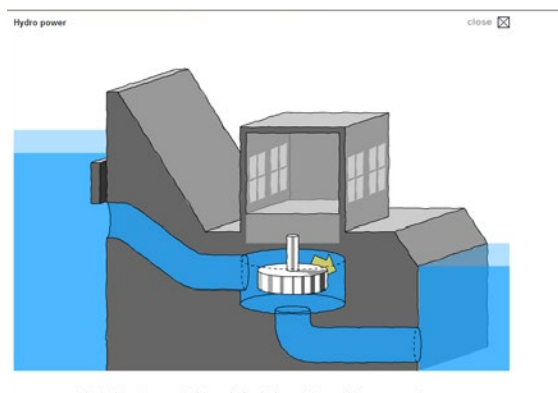
Cost: Free

Format: Interactive webpage
<http://environment.nationalgeographic.com/energy/great-energy-challenge/carbon-capture-quiz/>

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Hydropower



Explanation about how electricity is generated from moving water

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Animation accessed via the website

www.sciencemuseum.org.uk/energy/site/EI2Infogr9.asp

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British Energy: Understanding Nuclear



A summary page linking various PDF pages of information, including animations

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website

www.british-energy.com/pagetemplate.php?pid=312

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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British Energy: How power stations work - PWR



Animation explaining how a pressurised water reactor works

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

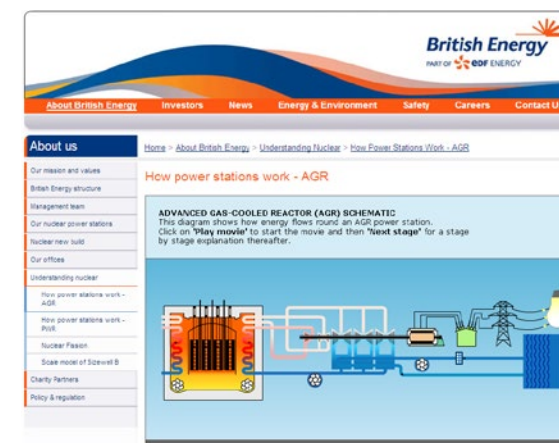
Format: Website

www.british-energy.com/pagetemplate.php?pid=314

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British Energy: How power stations work - AGR



Animation explaining how an Advanced Gas-Cooled Reactor works

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

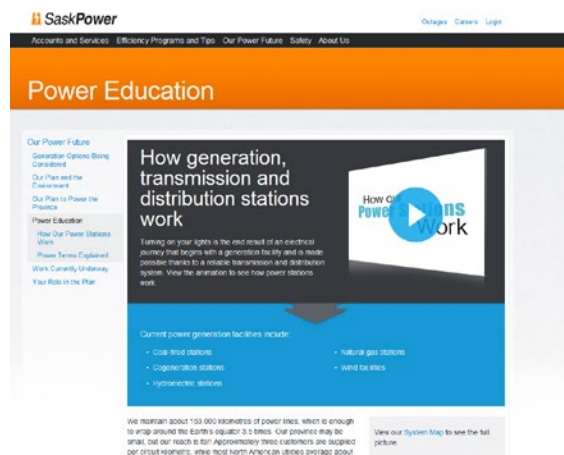
Format: Website

www.british-energy.com/pagetemplate.php?pid=313

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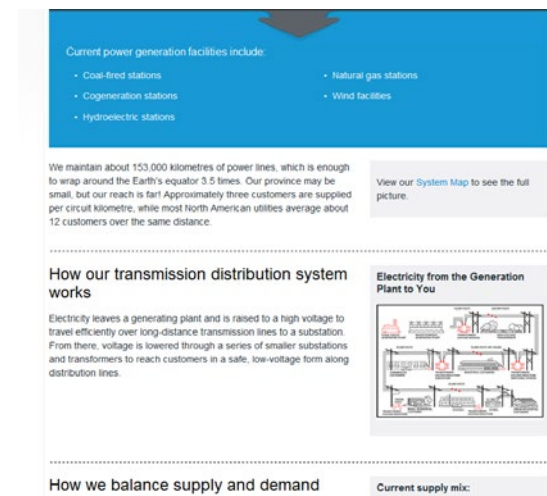
resourcesfeedback@ocr.org.uk

Power Station Animations



Animations explaining how coal, hydro, CCP and wind power stations work

How transmission distribution systems work



Labelled diagram showing electricity distribution

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website

<http://www.saskpower.com/our-power-future/power-education/>

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Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website – scroll down page

<http://www.saskpower.com/our-power-future/power-education/>

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resourcesfeedback@ocr.org.uk

Energy World: Distributing to You



Interactive game about distributing electricity across an island

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO1: Be able to analyse personal and social choices related to energy supply

Cost: Free

Format: Website

www.eon-uk.com/EnergyExperience/660.htm

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resourcesfeedback@ocr.org.uk

Radiation: NHS



Description of the use of ionising and non-ionising radiation in health care

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO2: Understand the risks and benefits related to the applications of nuclear radiation

Cost: Free

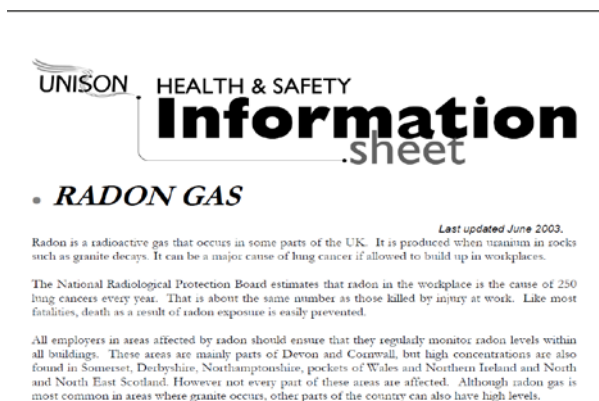
Format: Website

www.nhs.uk/conditions/Radiation/Pages/Introduction.aspx

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Unison health and safety sheet: Radon Gas



UNISON HEALTH & SAFETY Information sheet

• RADON GAS

Last updated June 2003.

Radon is a radioactive gas that occurs in some parts of the UK. It is produced when uranium in rocks such as granite decays. It can be a major cause of lung cancer if allowed to build up in workplaces.

The National Radiological Protection Board estimates that radon in the workplace is the cause of 250 lung cancers every year. That is about the same number as those killed by injury at work. Like most fatalities, death as a result of radon exposure is easily prevented.

All employers in areas affected by radon should ensure that they regularly monitor radon levels within all buildings. These areas are mainly parts of Devon and Cornwall, but high concentrations are also found in Somerset, Derbyshire, Northamptonshire, pockets of Wales and Northern Ireland and North and North East Scotland. However not every part of these areas are affected. Although radon gas is most common in areas where granite occurs, other parts of the country can also have high levels.

A health and safety information sheet

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO2: Understand the risks and benefits related to the applications of nuclear radiation

Cost: Free

Format: Can be downloaded as a PDF from a website

www.unison.org.uk/acrobat/B875.pdf

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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CT Scan animation



Cancer Treatment Centers of America

Call 800-615-3055 | discuss your treatment | [Click Here to C](#)

Share this video: [f](#) [t](#) [v](#)

CT Scan

This medical animation illustrates how CAT (scans) are used to create three dimensional body (like X-rays). CAT scans show bone damage.

Related Links:

- [Learn More About CT Scans](#)
- [Other Diagnostic Tests](#)

No case is typical. You should not expect to experience these results.

[Cancer Survivors](#) [Cancer Types](#) [Doctors & Other Clinicians](#) [Treatments & Technology](#) [About CTA](#) [News Stories](#) [Con](#)

Imaging/Diagnostic Tools

[Radiation Therapy](#)
[Imaging/Diagnostic Tools](#)
[Surgery](#)
[Chemotherapy](#)
[Stem Cell Transplants](#)

MR SCANS CAN HELP DIAGNOSIS
Learn about the importance of an accurate cancer diagnosis.

BIOPSY'S
Medical animation

Medical animation of how a CT scanner is used

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO2: Understand the risks and benefits related to the applications of nuclear radiation

Cost: Free

Format: Animation accessed via the website

www.cancercenter.com/video/cancer-types/medanim/ctscan.cfm

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Radiation sickness



Medical animation explaining radiation sickness

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO2: Understand the risks and benefits related to the applications of nuclear radiation

Cost: Free

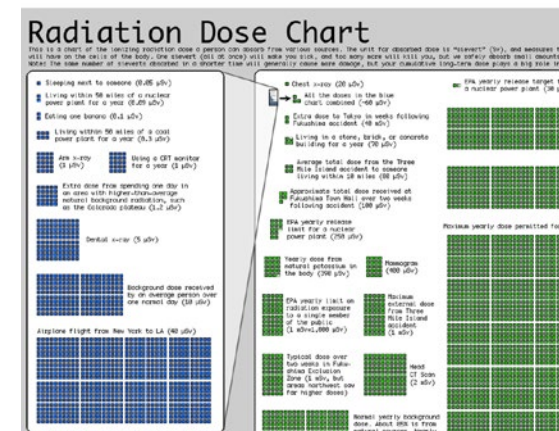
Format: Animation accessed via the website

www.cancercenter.com/video/treatments-technology/radiation-sickness

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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Radiation Dose Chart



Ionising radiation dose information

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO2: Understand the risks and benefits related to the applications of nuclear radiation

Cost: Free

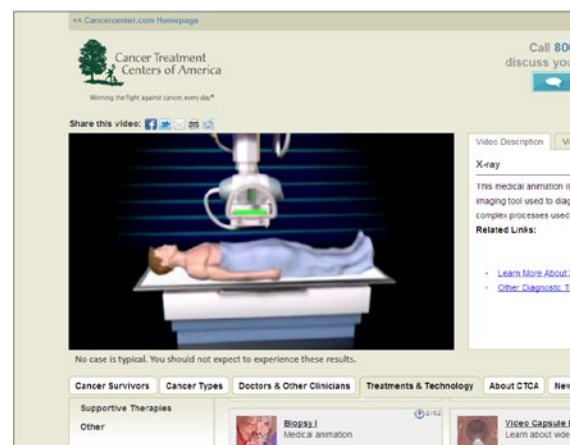
Format: Can be downloaded as a PNG picture file from the website

<http://xkcd.com/radiation/>

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X-Ray



Medical animation explaining the use of X-rays

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 1: Using Energy
LO2: Understand the risks and benefits related to the applications of nuclear radiation

Cost: Free

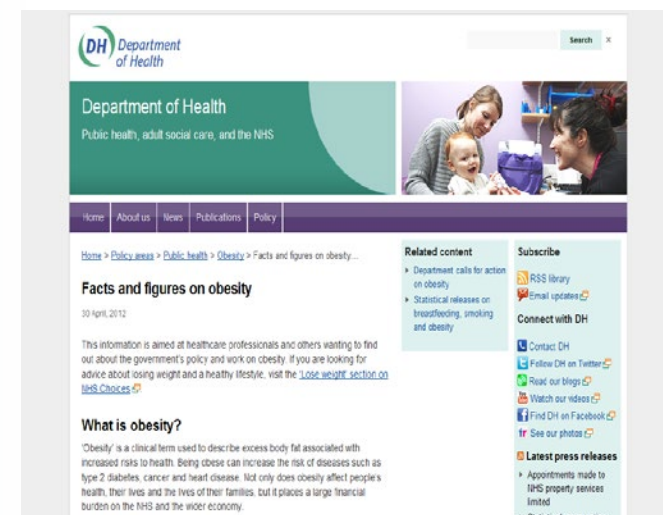
Format: Animation accessed via the website

www.cancercenter.com/video/cancer-types/medanim/ctscan.cfm

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Obesity facts and figures



Description of obesity and its impact. The page also links to obesity trends and health surveys

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

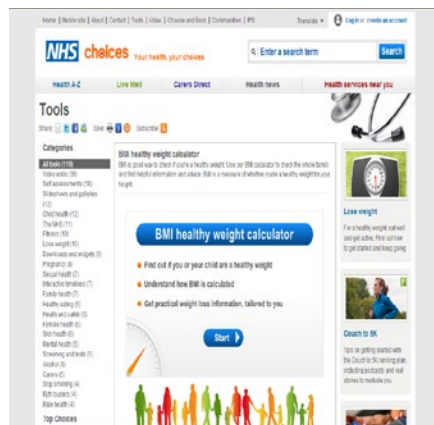
Format: Website

www.dh.gov.uk/health/2012/04/obesityfacts/

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

resourcesfeedback@ocr.org.uk

BMI Healthy weight calculator



Interactive page that calculates a healthy weight, and provides advice about losing weight and healthy eating

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.nhs.uk/tools/pages/healthyweightcalculator.aspx?tag

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Eat well plate



Explains a balanced diet based on the five food groups

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.dh.gov.uk/health/2012/06/about-the-eatwell-plate/

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Food and Diet



NHS link to nutrition essentials. Includes eight tips for healthy eating, an interactive food day planner, and a healthy eating self-assessment tool

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.nhs.uk/LiveWell/Goodfood/Pages/Goodfoodhome.aspx

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Smoking – The facts



Facts and figures on smoking

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.patient.co.uk/health/Smoking-The-Facts.htm

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The effects of drugs



The screenshot shows the NHS Choices website page for 'The effects of drugs'. The page includes a search bar, navigation tabs for 'Live Well', 'Care and support', and 'Health news'. The main content area features a large image of a cannabis plant and text explaining that drug abuse can be harmful to health. It lists popular topics such as Alcohol, Allergies, and Contraception. There are also sections for 'Useful links', 'Getting started', and 'Services near you'.

Explains the short/long term effects of illicit drug taking

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

<http://www.nhs.uk/Livewell/drugs/Pages/Drugoverview.aspx>

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abpi - Beating bacteria



The screenshot shows the abpi Resources for schools website page for 'Beating bacteria'. The page features a search bar, navigation tabs for 'Home', 'About us', 'Contact us', and 'Helpdesk'. The main content area includes a large image of a microscope and text explaining that research and development can create new medicines. There are also sections for 'Contents' and 'Media to read online'.

Link page to resources produced by the Association of British Pharmaceuticals Industry

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved *and*
LO5: Understand the risks and benefits of medical treatments

Cost: Free

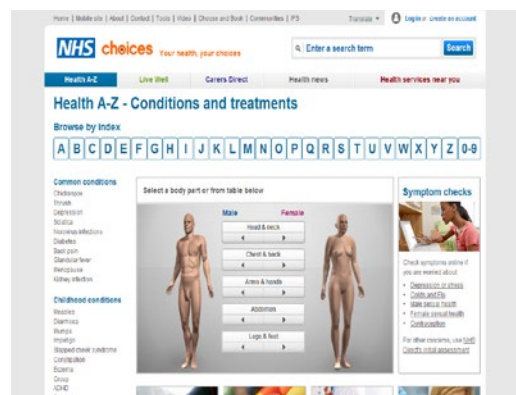
Format: Website

www.abpischools.org.uk/page/modules/bacteria/index.cfm?coSiteNavigation_allTopic=1

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Health A-Z - Conditions and treatments



Link page to understand conditions and their treatment. This leads to selected areas explaining symptoms, causes, diagnosis, treatment and complications

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

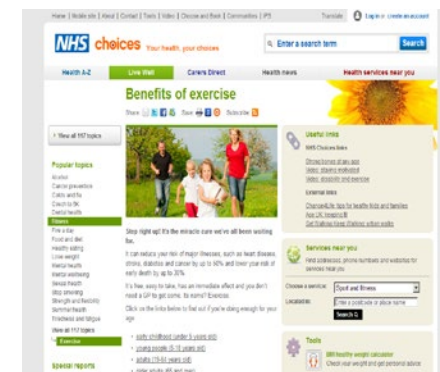
Format: Website

www.nhs.uk/conditions/Pages/hub.aspx

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resourcesfeedback@ocr.org.uk

Benefits of exercise



Explains the benefits of exercise

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.nhs.uk/Livewell/fitness/Pages/Whybeactive.aspx

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

resourcesfeedback@ocr.org.uk

Arthritis claim over exercise



Explains possible damage from too much exercise

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

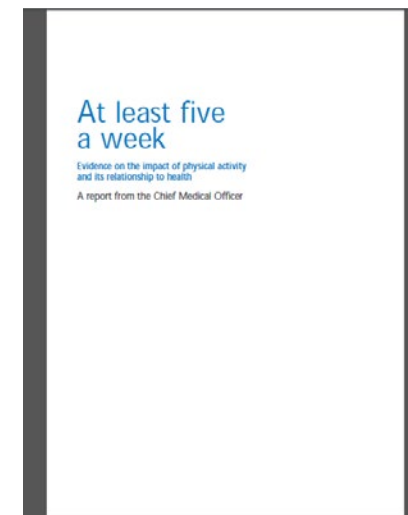
Cost: Free

Format: Website
www.nhs.uk/news/2009/11November/Pages/keep-fit-exercise-arthritis-joint-pain.aspx

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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At least five a week



Evidence on the impact of physical activity and its relationship to health. A report by the Chief Medical Officer sets out the latest research evidence of the benefits of physical activity for health

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website
http://webarchive.nationalarchives.gov.uk/20130107105354/http://www.dh.gov.uk/prod_consum_dh/groups/dh_digitalassets/@dh/@en/documents/digitalasset/dh_4080981.pdf

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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Physical activity guidelines for adults



Exercise regime for 19 to 65 year olds

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.nhs.uk/Livewell/fitness/Pages/physical-activity-guidelines-for-adults.aspx

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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Physical activity guidelines for children and young people



Exercise regime for 5 to 18 year olds

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

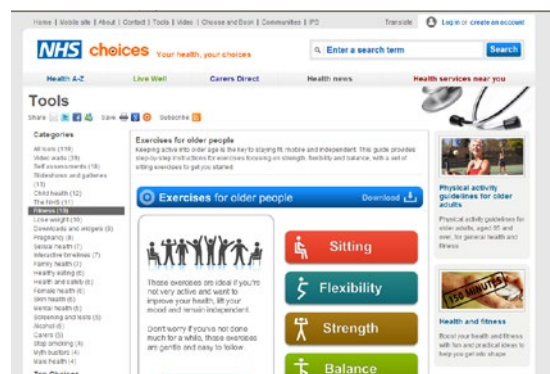
Format: Website

www.nhs.uk/Livewell/fitness/Pages/physical-activity-guidelines-for-youngpeople.aspx

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

resourcesfeedback@ocr.org.uk

Exercises for older people



Exercise regime for older people

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

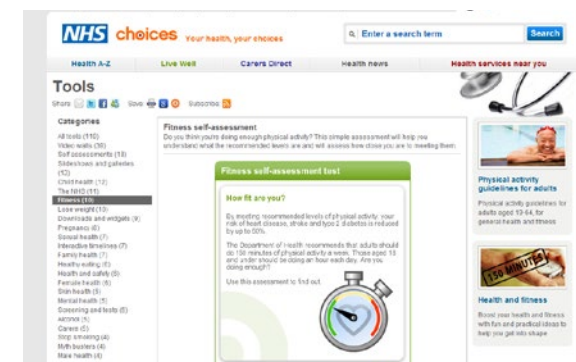
Format: Website

www.nhs.uk/Tools/Pages/Exercises-for-older-people.aspx?Tag=Fitness

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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Fitness self-assessment



A self-assessment tool providing recommendations for fitness

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.nhs.uk/Tools/Pages/Fitness.aspx?Tag=Fitness

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Immunisation against infectious disease

Search

Home government sectors Get involved Departments Worldviews Topics Announcements Consultations Policies Publications Statistics

Guidance

Green book: the complete current edition

Organisation: Public Health England
Published: 28 January 2013
Subject: immunisation against infectious disease: the green book

Documents

Green Book (updated 14 March 2013)
The latest version of Immunisation against infectious disease (the Green Book), with all the updated chapters in one document.
PDF, 4.2 MB, 528 pages
This file may not be suitable for users of assistive technology. Request a different format.

Immunisation against infectious disease 2006: the green book (original edition)
PDF, 3.7 MB, 470 pages
This file may not be suitable for users of assistive technology. Request a different format.

Detail

The latest version of Immunisation against infectious disease (the Green

'The Green Book' - 2006 updated edition. Information on vaccines and vaccination procedures for all the vaccine preventable infectious diseases that may occur in the UK

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website
<https://www.gov.uk/government/publications/green-book-the-complete-current-edition>

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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Vaccinations

NHS choices Your health, your choices

Enter a search term Search

Health A-Z Live Well Careers Direct Health news Health services near you

Vaccinations
Your NHS guide to vaccinations for you and your family

About vaccination Vaccines for babies Vaccines for teens Vaccines for adults Travel vaccines

About this guide
Whatever your age, our vaccination guide gives you the up-to-date information that you need on the most common recommendations for you and your family.

Get info on a specific vaccine
Vaccines always protect you from serious diseases, and are one of the most effective measures to keep you healthy. This site is a good place to find out more about vaccines, how they work, and how to get vaccinated. Vaccines are available for people of all ages, and for those with special needs. So whether you're a parent of a young child, a teenager, young person, or an elderly person, you'll find useful advice on the vaccines that you need to stay healthy.

- About vaccinations
- Vaccines for babies
- Vaccines for teens
- Vaccines for adults

A NHS guide to vaccination

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO4: Understand how human health can be improved

Cost: Free

Format: Website

www.nhs.uk/Planners/vaccinations/Pages/Landing.aspx

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

resourcesfeedback@ocr.org.uk

Gene therapy used to treat haemophilia



BBC article into the research of Gene therapy used to treat haemophilia

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO5: Understand the risks and benefits of medical treatments

Cost: Free

Format: Website
www.nhs.uk/news/2011/12December/Pages/haemophilia-b-christmas-disease-gene-therapy.aspx

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

resourcesfeedback@ocr.org.uk

Could stem cells one day end hip replacement?



Independent news article on the use of stem cells

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO5: Understand the risks and benefits of medical treatments

Cost: Free

Format: Website
www.nhs.uk/news/2012/05may/Pages/hip-bone-stem-cell-scaffold.aspx

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

resourcesfeedback@ocr.org.uk

Cardiac operative risk evaluation



NEW! EuroSCORE II - launched 3/10/11

Interactive calculator for risk when undergoing cardiac surgery

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO5: Understand the risks and benefits of medical treatments

Cost: Free

Format: Website

<http://euroscore.org/>

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

resourcesfeedback@ocr.org.uk

Bioindicators: Using organisms to measure environmental impacts



How to assess the impacts of human activities on natural ecosystems.

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO6: Be able to measure the environmental effects of human activity

Cost: Free

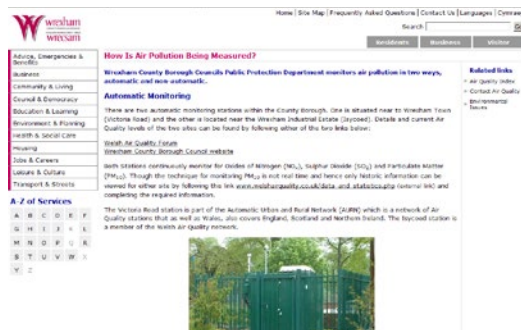
Format: Website

www.nature.com/scitable/knowledge/library/bioindicators-using-organisms-to-measure-environmental-impacts-16821310

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

resourcesfeedback@ocr.org.uk

Wrexham Borough Council – How is air pollution being monitored



Explanation of automatic and non-automatic measurement of air pollution. Linked to Welch Quality Air Forum for updated pollution measurements

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO6: Be able to measure the environmental effects of human activity

Cost: Free

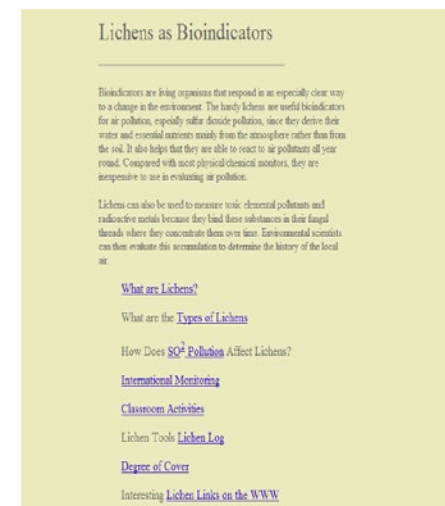
Format: Website

www.wrexham.gov.uk/english/environment/air_quality/measured.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

resourcesfeedback@ocr.org.uk

Lichens as bioindicators



Explanation of the use of lichens as bioindicators - includes classroom activities of sampling and analysing

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO6: Be able to measure the environmental effects of human activity

Cost: Free

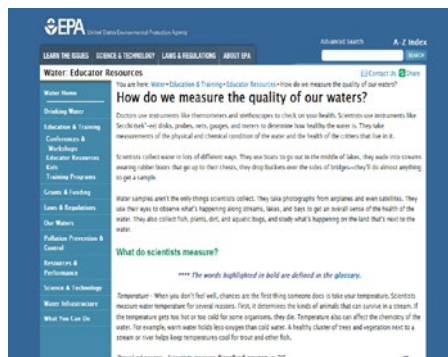
Format: Website

www.concord.org/~btinker/gaiamatters/investigations/lichens/index.html

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

resourcesfeedback@ocr.org.uk

How do we measure the quality of our waters?



US Environmental Protection agency – this page links to all aspects of environmental protection

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO6: Be able to measure the environmental effects of human activity

Cost: Free

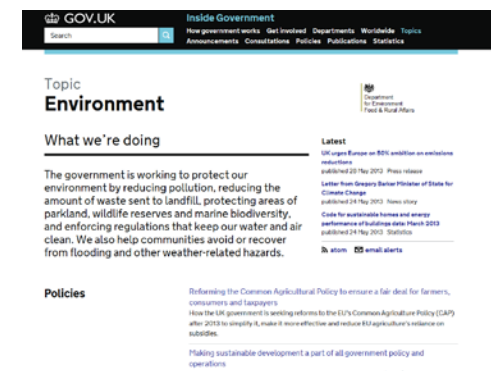
Format: Website

<http://water.epa.gov/learn/resources/measure.cfm>

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

resourcesfeedback@ocr.org.uk

Defra - The environment



Link page to the Governments approach to the environment: from Natural environment and biodiversity to Water, air, other environment quality issues

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 2: Keeping healthy
LO6: Be able to measure the environmental effects of human activity

Cost: Free

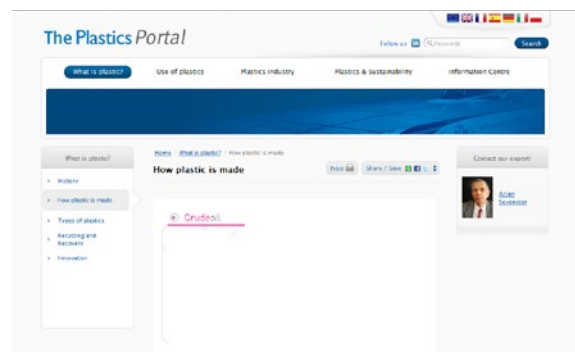
Format: Website

<https://www.gov.uk/government/topics/environment>

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

resourcesfeedback@ocr.org.uk

How plastics are made



Animations and text about the production of plastics, types of plastics and recycling of plastics

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

Format: Website

www.plasticseurope.org/what-is-plastic/how-plastic-is-made.aspx

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

resourcesfeedback@ocr.org.uk

Cement and concrete basics



An explanation of how Portland cement is made - includes a virtual tour of a cement plant

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

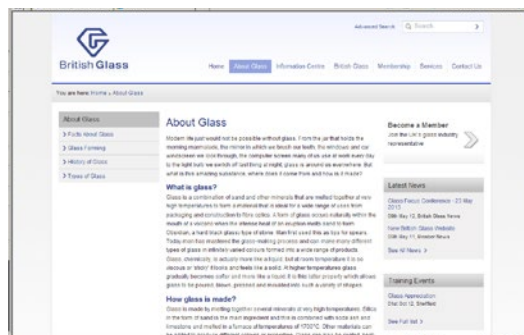
Format: Website

www.cement.org/basics/howmade.asp

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

resourcesfeedback@ocr.org.uk

About glass



Explanation about how glass is made and its history

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

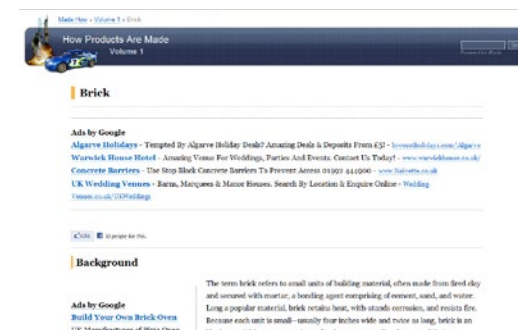
Format: Website

www.britglass.org.uk/about-glass

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

resourcesfeedback@ocr.org.uk

How to manufacture bricks



Step by step guide to brick manufacture

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

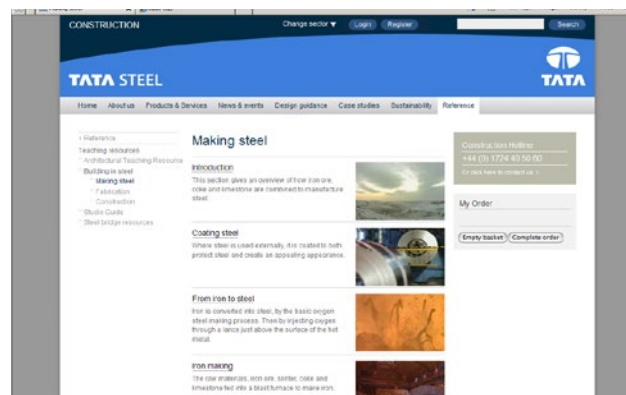
Format: Website

www.madehow.com/Volume-1/Brick.html

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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Steel manufacture



An overview of how iron ore, coke and limestone are combined to manufacture steel

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

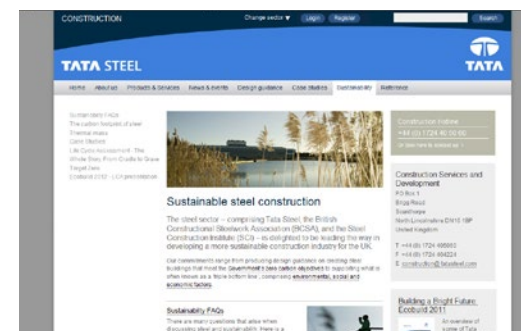
Format: Website

www.tatasteelconstruction.com/en/reference/teaching_resources/building_in_steel/making_steel/

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

resourcesfeedback@ocr.org.uk

Sustainability of steel



The webpage has a number of case studies explaining sustainability of steel production

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

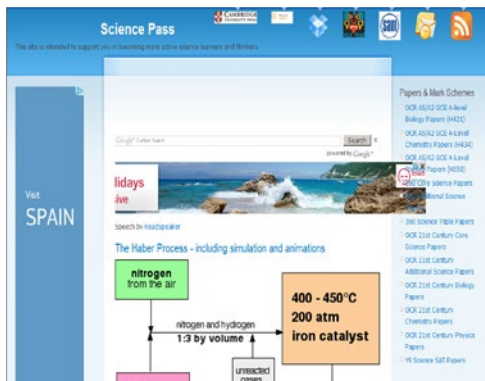
Format: Website

www.tatasteelconstruction.com/en/sustainability/

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Haber process interactive graphs and animation



The Haber Process - including simulation and animations

nitrogen from the air

hydrogen

nitrogen and hydrogen
1:3 by volume

400 - 450°C
200 atm
iron catalyst

unreacted gases

Interactive graphs to show the relationship of pressure/temperature to yield. Animation describes the reversible reactions and the use of catalysts

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

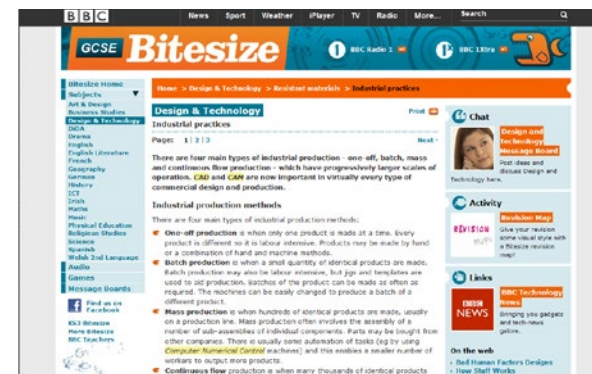
Format: Website

www.sciencepass.com/2011/02/haber-process-including-simulation-and.html

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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Industrial production methods



GCSE Bitesize

Home > Design & Technology > Resistant materials > Industrial practices

Design & Technology

Industrial practices

Pages: 1 | 2 | 3

There are four main types of industrial production - one-off, batch, mass and continuous flow production - which have progressively larger scales of operations. CAD and CAM are now important in virtually every type of commercial design and production.

Industrial production methods

There are four main types of industrial production methods:

- One-off production is when only one product is made at a time. Every product is different so it is labour intensive. Products may be made by hand or a combination of hand and machine methods.
- Batch production is when a small quantity of identical products are made. Batch production may also be labour intensive, but jigs and templates are used to aid production, so that the product can be made as often as required. The machines can be easily changed to produce a batch of a different product.
- Mass production is when hundreds of identical products are made, usually on a production line. Mass production often involves the assembly of a number of sub-assemblies of individual components. Parts may be bought from other companies. There is usually some automation of tasks (eg by using Computer Numerical Control machines) and this enables a smaller number of workers to output more products.
- Continuous flow production is when many thousands of identical products

Explanation of the four main types of industrial production methods: one-off production, batch production, mass production and continuous flow

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

Format: Website

www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/processindpracrev1.shtml

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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Electrolysis



Explanation of the electrolysis process - oxidation and reduction

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

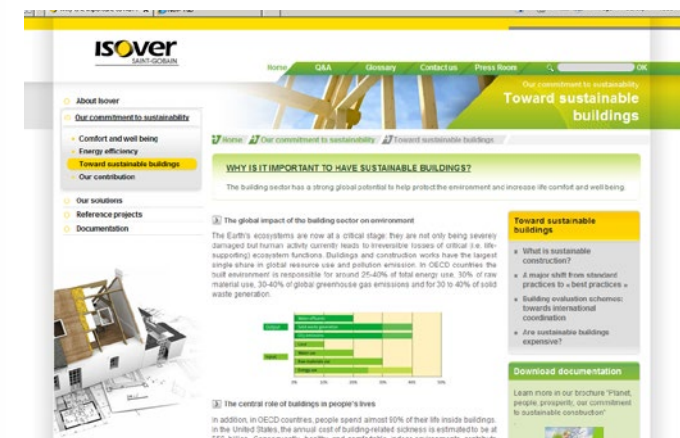
Cost: Free

Format: Website
www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/ions/electrolysisrev1.shtml

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

resourcesfeedback@ocr.org.uk

Toward sustainable buildings



How sustainable construction can reduce the environmental impact of a building over its entire lifetime

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

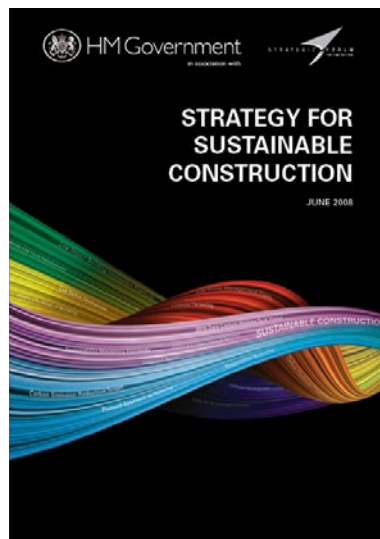
Cost: Free

Format: Website
www.isover.com/Our-commitment-to-sustainability/Toward-sustainable-buildings/Why-is-it-important-to-have-sustainable-buildings

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

resourcesfeedback@ocr.org.uk

Strategy for sustainable construction



UK Governments strategy for sustainable construction

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

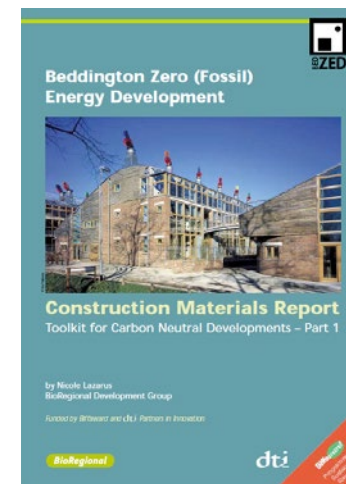
Format: Website

www.bis.gov.uk/files/file46535.pdf

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

resourcesfeedback@ocr.org.uk

Construction Materials Report - Toolkit for Carbon Neutral Developments



Report covers: Materials in Construction; Measuring Environmental; Impacts of Materials; Material Case Studies

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources

Cost: Free

Format: Website

www.bioregional.com/files/publications/BedZEDMaterialsReportSummary.pdf

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resourcesfeedback@ocr.org.uk

Sustainable materials strategy



Explanation of why Ford is making its vehicles more eco-friendly through increased use of renewable and recyclable materials

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO7: Understand how materials we use are made from natural resources *and* LO8: Understand how the properties of materials we use are determined by structure and bonding

Cost: Free

Format: Website

www.kbtx.com/home/headlines/92098574.html

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The polymerisation of alkenes

THE POLYMERISATION OF ALKENES

This page looks at the polymerisation of alkenes to produce polymers like poly(ethene) (usually known as polythene, and sometimes as polyethylene), poly(propene) (old name: polypropylene), PVC and PTFE. It also looks briefly at how the structure of the polymers affects their properties and uses.

Poly(ethene) (polythene or polyethylene)

Low density poly(ethene): LDPE

Manufacture

In common with everything else on this page, this is an example of **addition polymerisation**.

An addition reaction is one in which two or more molecules join together to give a single product. During the polymerisation of ethene, thousands of ethene molecules join together to make poly(ethene) - commonly called polythene.

$$n \text{ CH}_2=\text{CH}_2 \longrightarrow \text{[CH}_2-\text{CH}_2\text{]}_n$$

The number of molecules joining up is very variable, but is in the region of 2000 to 20000.

Conditions

Temperature: about 200°C
Pressure: about 2000 atmospheres

Explanation of polymerisation of alkenes to produce polymers and how the structure of the polymers affects their properties and uses

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO8: Understand how the properties of materials we use are determined by structure and bonding

Cost: Free

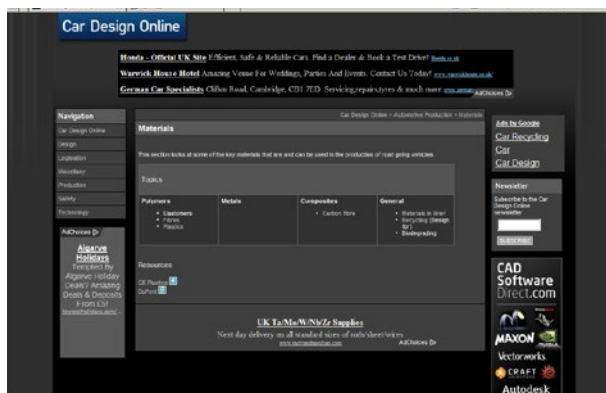
Format: Website

www.chemguide.co.uk/organicprops/alkenes/polymerisation.html

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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Car design online



Some of the key materials used in the production of vehicles

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO8: Understand how the properties of materials we use are determined by structure and bonding

Cost: Free

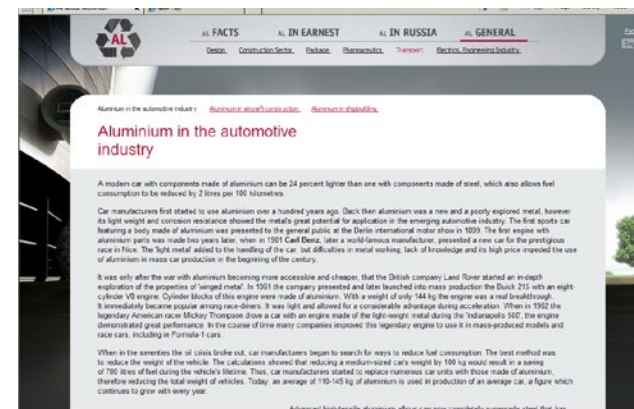
Format: Website

www.carsdesignonline.com/production/materials/index.php

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

resourcesfeedback@ocr.org.uk

Aluminium in the automotive industry



The use of aluminium in the automotive industry

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO8: Understand how the properties of materials we use are determined by structure and bonding

Cost: Free

Format: Pdf of textbook

www.aluminiumleader.com/en/around/transport/cars

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Tensile Property Testing of Plastics



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Tensile Property Testing of Plastics

Ultimate Tensile Strength

The ability to resist breaking under tensile stress is one of the most important and widely measured properties of materials used in structural applications. The force per unit area (MPa or psi) required to break a material in such a manner is the **ultimate tensile strength** or **tensile strength at break**. The rate at which a sample is pulled apart in the test can range from 0.2 to 20 inches per minute and will influence the results. The analogous test to measure tensile properties in the ISO system is ISO 527. The values reported in the ASTM D638 and ISO 527 tests in general do not vary significantly and either test will provide good results early in the material selection process. Separate tensile test methods are commonly applied to polymer films (ASTM D882) and elastomers (ASTM D412).

The figure below, from [Quintest Engineering Plastic Products](#), shows the test geometry.

Force Measurement

Grips for Holding Specimen Firmly

Fixed Head

Test Specimen

ASTM D638:
For this test, plastic samples are either machined from stock shapes or injection molded. The tensile testing machine pulls the sample from both ends and measures the force required to pull the specimen apart and how much the sample stretches before breaking.

The method used to measure tensile strength of plastics and data

Supports: Level 1/2 Cambridge National in Science
Unit R071, Module 3: Materials for a purpose
LO8: Understand how the properties of materials we use are determined by structure and bonding

Cost: Free


Format: Pdf of textbook

www.matweb.com/reference/tensilestrength.aspx

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How to calculate the density of a copper sheet



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How to calculate the density of a copper sheet

By William Hiron, eHow Contributor

Calculate the density of a copper sheet with a few tools and a little knowledge of simple physics concepts. The density of anything made of a single material is equal to its mass divided by its volume. Copper is a material with many applications because of its malleability, or ability to be easily formed into sheets, wires or tubes. Copper is used frequently in electrical applications, such as wiring or computer components, because it conducts electricity very well.

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LO9: Be able to measure the properties of materials to recommend appropriate uses

Cost: Free

Format: Website

www.ehow.com/how_6726978_calculate-density-copper-sheet.html

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Unit R071

Module 1 - Using Energy

LO1: Be able to analyse personal and social choices related to energy supply

- Living With and EON Wind Farm
- EON UK Sites
- The Fourth Energy Source
- Unison Health and Safety sheet: Radon Gas
- Meeting the Energy Challenge
- Global Warming and the Greenhouse Effect
- Overview of the Greenhouse Effect
- Harness the Power of Wind
- Global Warming Quiz
- Wind Power
- Solar Power
- Biofuels
- The Great Energy Quiz
- Hydro Power
- The Great Energy Challenge
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- British Energy: Understanding Nuclear
- British Energy: How power stations work (PWR)
- British Energy: How power stations work (AGR)
- Power Station Animations

- How Transmission Distribution Systems Work
- Energy World: Distributing to You

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- CT Scan Animation
- Radiation Sickness
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- X-Ray

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- Eat well plate
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- Smoking – The facts
- The effects of drugs
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- Benefits of exercise
- Arthritis claim over exercise
- At least five a week: Evidence on the impact
- Physical activity guidelines for adults
- Physical activity guidelines for children and young people
- Exercises for older people

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- Fitness self-assessment
- Immunisation against infectious disease
- Vaccinations

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- Wrexham Borough Council – How is air pollution being monitored
- Lichens as Bioindicators
- How do we measure the quality of our waters?
- Defra – environment

Module 3 - Materials for a purpose

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- About glass
- How to manufacture bricks

- Steel manufacture
- Sustainability of steel
- Haber process animation
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- Electroplating
- Toward sustainable buildings
- Strategy for sustainable construction
- Construction Materials Report - Toolkit for Carbon Neutral Developments
- Sustainable materials strategy

LO8: Understand how the properties of materials we use are determined by structure and bonding

- The polymerisation of alkenes
- Car design online
- Aluminium in the automotive industry
- Tensile Property Testing of Plastics

LO9: Be able to measure the properties of materials to recommend appropriate uses

- How to calculate the density of a copper sheet

