



RESOURCES LINK - R072

VERSION 1 NOVEMBER 2012



SCIENCE
Level 1/2

OCR 

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.

Introduction to Earth's climate



Lesson Plan: Introducing Earth's climate.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

www.explainingclimatechange.ca/Climate%20Change/Lessons/Lesson%201/lesson1.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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Climate discovery: Natural records of change



Lesson Plan: Nature's indirect evidence of climate change.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: PDF

http://eo.ucar.edu/educators/ClimateDiscovery/LIA_lesson2_9.28.05.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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Second-hand rocks



Introduction to sedimentary rock formation.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

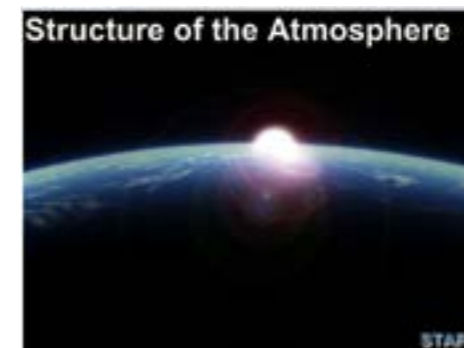
Format: PDF

www.nationalstemcentre.org.uk/elibrary/resource/734/second-hand-rocks-introducing-sedimentary-processes

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Structure of the atmosphere



Animation introducing the structure of the atmosphere.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

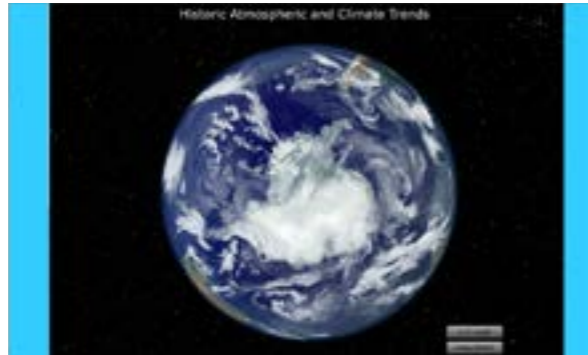
Format: Flash animation

www.explainingclimatechange.ca/Climate%20Change/swf/atmosphere/atmosphere.swf

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Historic atmospheric and climate trends



Graph illustrating the change in climate and atmosphere over time.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Flash illustration

www.explainingclimatechange.ca/Climate%20Change/swf/climatetrends/historyGraphs.swf

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Climate discovery: Dark skies



Lesson Plan: Volcanic contribution to climate change.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: PDF

http://eo.ucar.edu/educators/ClimateDiscovery/LIA_lesson8_9.28.05.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

Business case studies



Studies showing the effects of climate change on business.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website, PDF

www.ukcip.org.uk/case-studies/business-case-studies/

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Global climate change and sea level rise



Lesson Plan: investigation into the effects of climate change on sea level

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website, PDF

www.calacademy.org/teachers/resources/lessons/global-climate-change-and-sea-level-rise/

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Models of the Solar System, Earth, Sun and Moon



Video on the Solar System, Earth, Sun and Moon.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Youtube video

www.youtube.com/watch?v=Mgn5GOCCgLw

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The scientific revolution



How science changed the way people viewed the solar system.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

<http://hti.osu.edu/history-lesson-plans/european-history/scientific-revolution>

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History of evolutionary theory



Lesson Plan: The history of how the theory of evolution developed.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

<http://sciencenetlinks.com/lessons/the-history-of-evolutionary-theory/>

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Survival rivals – Brine date



Interactive game introducing natural selection.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Flash game

<http://survivalrivals.org/brine-date/game>

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Survival of the sneakiest



Introduces the process of natural selection.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

http://evolution.berkeley.edu/evolibrary/article/0_0_0/sneakermales_01

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Introducing ideas about inheritance



Introduction to genetics and inheritance.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

www.nuffieldfoundation.org/practical-biology/introducing-ideas-about-inheritance

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Pea soup



Website about Mendel and his study of peas.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

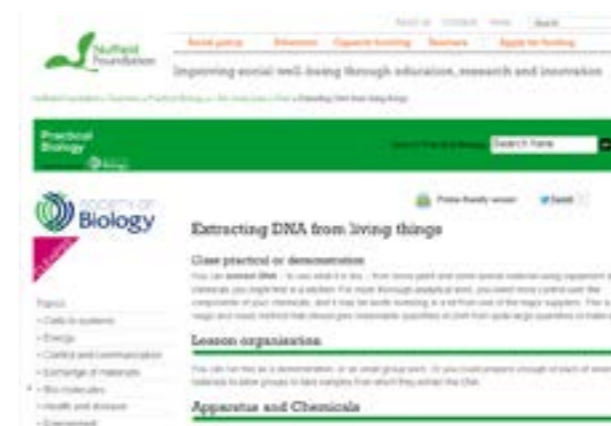
Format: Website

www.sonic.net/~nbs/projects/anthro201/

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Extracting DNA from living things



Practical investigation - extracting DNA from living things.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

www.nuffieldfoundation.org/practical-biology/extracting-dna-living-things

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Tree of life



How are living things classified.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Flash illustration

www.wellcometreeoflife.org/interactive/

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Tree of life resources



Resources to help the learning of classification.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website, Word Documents, PDF

www.wellcometreeoflife.org/resources/education/

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resourcesfeedback@ocr.org.uk

Linnaeus and the first system of classification



Video about Linnaeus and classification of plants.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Video

www.saps.org.uk/secondary/teaching-resources/829-linnean-system

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Binomial system of classification



Video introducing Linnaeus' binomial classification of plants.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

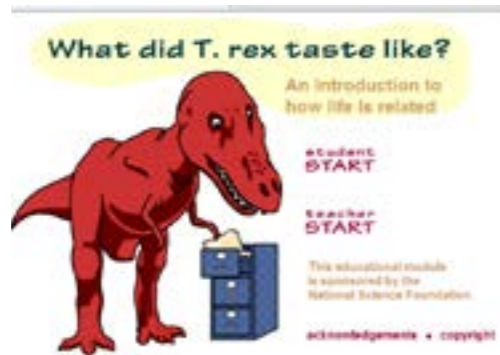
Format: Video

www.saps.org.uk/secondary/teaching-resources/826-binomial-system

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resourcesfeedback@ocr.org.uk

What did T-Rex taste like?



An introduction to cladistics.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Interactive website

www.ucmp.berkeley.edu/education/explorations/tours/Trex/index.html

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Measuring reaction time of a human nerve-controlled reaction



An introduction to the nervous system.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

www.nuffieldfoundation.org/practical-biology/measuring-reaction-time-human-nerve-controlled-reaction

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History of diabetes



Video about the history of diabetes and treatment.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Youtube video

www.youtube.com/watch?v=zJFNOBNxl-Y&feature=player_embedded#

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Diabetes



Interactive webpage introducing Type 1 and Type 2 diabetes.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

<http://235.stem.org.uk/Diabetes/diabetes/diabetes1.html>

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resourcesfeedback@ocr.org.uk

Diabetes UK



Homepage of Diabetes UK.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

www.diabetes.org.uk

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resourcesfeedback@ocr.org.uk

Investigating factors affecting the heart rate of Daphnia



Practical investigation using the water flea Daphnia.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

<http://www.nuffieldfoundation.org/practical-biology/investigating-factors-affecting-heart-rate-daphnia>

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Interpreting information about sweating and temperature



Introduction to human body self regulation using data

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Word document

<http://www.nuffieldfoundation.org/practical-biology/interpreting-information-about-sweating-and-temperature>

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resourcesfeedback@ocr.org.uk

Observing the effects of exercise on the human body



Practical investigation.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

www.nuffieldfoundation.org/practical-biology/observing-effects-exercise-human-body

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

Monitoring the body's reactions to stress



Practical investigation.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: Website

<http://www.nuffieldfoundation.org/practical-biology/monitoring-body%E2%80%99s-reactions-stress>

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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Major events in the history of mass communications



How science influenced the major changes in mass communication.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

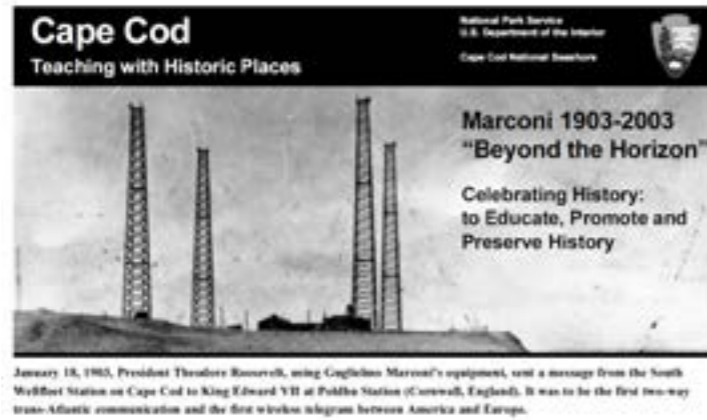
Format: PDF

www.doe.in.gov/sites/default/files/curriculum/timeline1.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

Beyond the horizon



How scientific advancement helped saved lives aboard Titanic

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

Cost: Free

Format: PDF

www.nps.gov/caco/forteachers/upload/Marconi.pdf

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Developing explanations/Alternative explanations



How evidence influences the development and adaptation of scientific theory.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO2: Understand the process of science: the scientific method

Cost: Free

Format: Word document

www.oup.com/21cScience/docs/c21-steppingstones.doc

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Who were the Neanderthals?



Learning activity studying Neanderthals. It explores the differences between data and scientific explanations.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO2: Understand the process of science: the scientific method

Cost: Free

Format: Word document

www.oup.com/21cScience/docs/KAT%20IAS3%20H.doc (Higher)
www.oup.com/21cScience/docs/KAT%20IAS3%20F.doc (Foundation)

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Cause-effect explanations - Pirates



Investigating the relationship between correlation, cause and effect.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO2: Understand the process of science: the scientific method

Cost: Free

Format: Word document

www.oup.com/21cScience/docs/c21-steppingstones.doc

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Science in Media

Correlation or Causation?

14 of August 1, 2012

Headlines of Public Press Articles	Assignment Ideas for These Resources
<p>▶ What kinds of headlines reveal who they reveal the climate? Coverage on 'heat to eat' reveals climate link Heat called to end an anti-science Studies show evidence, but not the link</p> <p>▶ Actual student logs and logs</p> <p>National Academies of Sciences, Engineering, and Medicine The coffee hour starts soon for climate change Research Advances on the Evidence on Climate Change Strength of Evidence on Climate Change Climate Science: A Review of the Evidence Media coverage of climate science</p>	<p>1) The left and right to compare press articles regarding a variety of scientific studies and their results. The text in the table (e.g. "the climate science facts in fact") is the actual headline of these public press articles. Some of the headlines suggest a causal relationship between two variables, and some simply suggest a correlation between the variables. Collaboratively, the headlines of articles in the public works often misrepresents the research or which they are based. Many of the headlines in the left suggest causal relationships when, upon closer reading of the article itself, one finds that the research was correlational in nature, and the headlines is not justified.</p> <p>2) Use the Media? Use the resources in a variety of ways to help my students identify the language of causal relationships and correlations, identify the left side right that an experiment or a correlational study is being described in the media which there is no mention of the type of study, and to learn how to evaluate the quality and nature of evidence in judging the merit of a claim. Below and a this investigation can be used with the resources. If you find all or some of the other work assignments I would love to hear about them. Just send me a note or message at jfmueller@ocr.org.</p>

Articles and activities to analyse how science is presented in the media.

Barrington Crater



Follows the process of peer review within the scientific community.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO2: Understand the process of science: the scientific method

Cost: Free

Format: Website

http://jfmueller.faculty.noctrl.edu/100/correlation_or_causation.htm

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resourcesfeedback@ocr.org

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO2: Understand the process of science: the scientific method

Cost: Free

Format: Word document

www.oup.com/21cScience/docs/KAT%20IAS4%20H.doc (Higher)
www.oup.com/21cScience/docs/KAT%20IAS4%20F.doc (Foundation)

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resourcesfeedback@ocr.org

Mobile phone



Investigating data validity, reliability and reproducibility of side-effects from mobile phone use.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO2: Understand the process of science: the scientific method

Cost: Free

Format: Website

www.nuffieldfoundation.org/teaching-about-science/lesson-e-mobile-phones

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Scientific misconceptions



Common misconceptions.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO2: Understand the process of science: the scientific method

Cost: Free

Format: PDF

<https://wiki.bath.ac.uk/download/attachments/56399023/Osborne+Dillon+chapter+2.pdf?version=1&modificationDate=1317051468000>

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Wegener and Continental Drift



How do new scientific theories become accepted.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas
LO2: Understand the process of science: the scientific method

Cost: Free

Format: PDF

www.nationalstemcentre.org.uk/elibrary/resource/5841/wegener-and-continental-drift

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Big Bang Theory



Video introduction on the Big Bang theory and formation of the Universe.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas
LO3: Be able to evaluate scientific information

Cost: Free

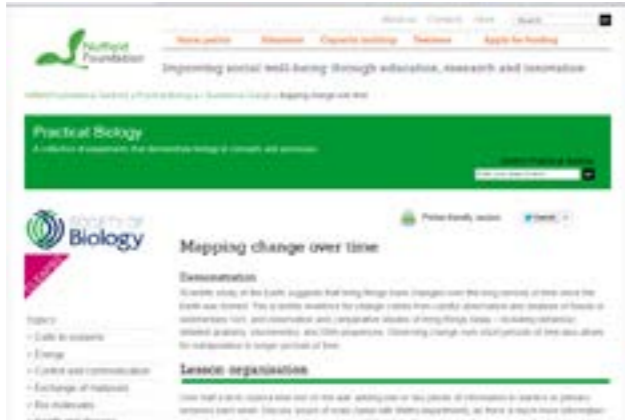
Format: Video

www.nationalstemcentre.org.uk/elibrary/resource/1921/big-bang-evidence

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Mapping change over time



Introduction to the theory of evolution.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas
LO3: Be able to evaluate scientific information

Cost: Free

Format: Website

www.nuffieldfoundation.org/practical-biology/mapping-change-over-time

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Comparing theories: Lamarck and Darwin



Lesson Plan: Comparing the theories of evolution by Lamarck and Darwin.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas
LO3: Be able to evaluate scientific information

Cost: Free

Format: Website

<http://sciencenetlinks.com/lessons/comparing-theories-lamarck-and-darwin/>

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resourcesfeedback@ocr.org.uk

What's the hammer for?



Lesson Plan: Why did these sharks evolve in such a way?

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas
LO3: Be able to evaluate scientific information

Cost: Free

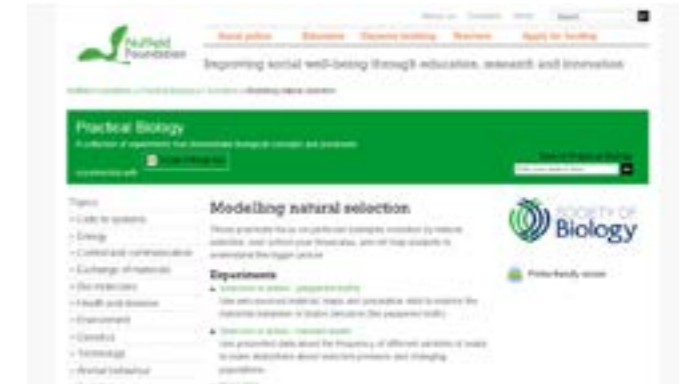
Format: Website

www.nationalgeographic.com/xpeditions/lessons/08/g912/hammerfor.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

Modelling natural selection



Weblinks to examples of natural selection.

Supports: Level 1/2 Cambridge National in Science
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Format: Website

www.nuffieldfoundation.org/practical-biology/modelling-natural-selection

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Darwin in the 21st Century



Weblinks to commemorate Darwin and the process of natural selection.

Supports: Level 1/2 Cambridge National in Science
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Cost: Free

Format: Website

www.wellcome.ac.uk/Education-resources/Teaching-and-education/Darwin-200/index.htm

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How science and the scientific community work



Follows the process of how Darwin's ideas developed within the scientific community.

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Cost: Free

Format: PDF

www.christscam.ac.uk/darwin200/docs/content/how_science_works.pdf

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Discovering the structure of DNA



The scientific process leading to the discovery of the structure of DNA.

Supports: Level 1/2 Cambridge National in Science
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Cost: Free

Format: PDF

www.ulster.ac.uk/scienceinsociety/dna_discovery.pdf

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Discovery of electric current



Details of Galvani's and Volta's work.

Supports: Level 1/2 Cambridge National in Science
Unit R072
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LO3: Be able to evaluate scientific information

Cost: Free

Format: PDF

www.nationalstemcentre.org.uk/elibrary/resource/1866/the-discovery-of-the-electric-current

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The nervous system



Interactive introduction to the human nervous system.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas
LO3: Be able to evaluate scientific information

Cost: Free

Format: Website

www.nobelprize.org/educational/medicine/nerve_signaling/game/nerve_signaling.html#/plot1

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resourcesfeedback@ocr.org.uk

The discovery of Insulin



Informative website on insulin discovery.

Supports: Level 1/2 Cambridge National in Science
Unit R072
LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas
LO3: Be able to evaluate scientific information

Cost: Free

Format: PDF

www.nobelprize.org/educational/medicine/insulin/discovery-insulin.html

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Resources Index

Click on a resource to go to the appropriate page.

Unit R072

LO1: Know and understand how the work of scientists has resulted in the development of scientific ideas

- Introduction to Earth's climate
- Climate discovery: Natural records of change
- Second-hand rocks
- Structure of the atmosphere
- Historic atmospheric and climate trends
- Climate discovery: Dark skies
- Business case studies
- Global climate change and sea level rise
- Models of the solar system, Earth, Sun and Moon
- The scientific revolution
- Survival rivals – Brine date
- Survival of the sneakiest
- Introducing ideas about Inheritance
- Pea soup
- Extracting DNA from living things
- Tree of life
- Tree of life resources
- Linnaeus and the first system of classification
- Binomial system of classification
- What did T-Rex taste like?
- Measuring reaction time of a human nerve-controlled reaction
- History of diabetes
- Diabetes
- Diabetes UK
- Investigating factors affecting the heart rate of Daphnia
- Interpreting information about sweating and temperature

Resources Index

Click on a resource to go to the appropriate page.

- Observing the effects of exercise on the human body
- Monitoring the body's reactions to stress
- Major events in the history of mass communications
- Beyond the horizon

LO2: Understand the process of science: the scientific method

- Developing explanations/Alternative explanations
- Who were the Neanderthals?
- Cause-effect explanations - Pirates
- Science in Media
- Barrington Crater
- Mobile phone
- Scientific misconceptions

LO1 and LO2:

- Wegener and Continental Drift

LO1 and LO3: Be able to evaluate scientific information

- Big Bang Theory
- Mapping change over time
- Comparing theories: Lamarck and Darwin
- What's the hammer for?
- Modelling natural selection
- Darwin in the 21st Century
- How science and the scientific community work
- Discovering the structure of DNA
- Discovery of electric current
- The nervous system
- The discovery of Insulin



SCIENCE
Level 1/2