

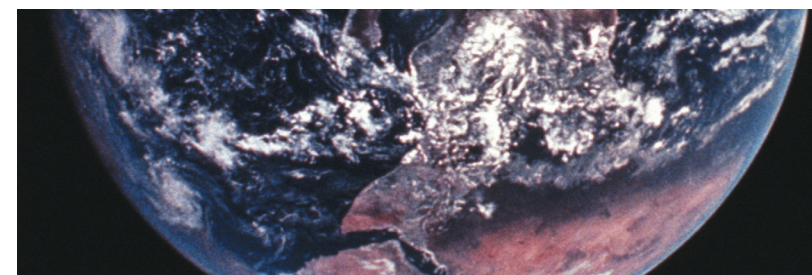
Many people find scientific ideas hard to grasp - this is not surprising as they are often quite contrary to our everyday ideas. Based on research into young people's often naïve scientific notions, this learning package helps students develop their understanding by exploring the science behind a range of environmental issues.

Taking full advantage of the potential of multimedia, Science Issues uses a range of interactive animations, games and learning activities. These bring basic science to life for learners aged 14 upwards: from GCSE, further and higher education students, to teachers and intending teachers (both primary and secondary).



SCIENCE ISSUES AND THE NATIONAL CURRICULUM IS DIVIDED INTO TEN UNITS:

- 1 Matter**
Solid waste management and recycling
- 2 Genetics**
Cell function and genetic engineering
- 3 Atmosphere**
Ozone depletion, the greenhouse effect and acid rain
- 4 Biodiversity**
Evolution and chaos theory
- 5 Energy**
Its distinction from matter and its degradation over time
- 6 Radioactivity**
Its uses and safety
- 7 Agriculture**
Plants, animals and the soil
- 8 The Home**
How materials and energy are used
- 9 Health**
How our body works
- 10 Transport**
Forces, energy and navigation



SCIENCE ISSUES AND THE NATIONAL CURRICULUM

A multimedia learning package to help students understand the scientific ideas behind a wide range of environmental issues, including pollution, biotechnology, global warming, habitat loss, fossil fuels, nuclear power, agriculture, your home, the way your body works and transport.

These issues together enable this CD to cover almost all the topics of the England and Wales National Curriculum for secondary science. An easy to access index allows you to enter this package either through one of the issues or through a National Curriculum topic.

This CD challenges known misconceptions that typically remain even after students have completed a GCSE science course. It helps you build a clear and scientific understanding of the world and the way it works.

Outstanding
'This product is quite remarkable. In a crowded field . . . this one is outstanding.' The Guardian

Content:
Keith Ross, Liz Lakin, George Burch and Mike Littleldyke, School of Education.
Design & Development:
George Burch, The Department of Learning Technology Support, University of Gloucestershire.

- 1 Getting Started**
This package is designed to run on Windows.
Download and unzip the package and save it in a folder called 'Science Issues'

- 2** Double Click the icon called 'Science' or 'Science.exe'



If you get an error message asking if you want to run the 'unknown' software click 'run anyway' to open the resource.

Access into the CD is either through one of the issues above or through an index. This index is based on the Science National Curriculum for England and Wales at Key Stages 3 and 4.

- 3 The Main Screen**

A National Curriculum index page

The Issues menu page

Click **NC** to go to the National Curriculum topics index.

Click **Issues** to enter the CD from the Issues menu.

User Trails

These maps are a guide to help you around this CD-Rom. They are laid out according to the issues section on the CD but can also be used as reference for National Curriculum topics.

If you have any queries or ideas for content that could be included in future versions of the CD please email Keith Ross (keithaross@gmail.com).

Two books published by Fci hYX[Y#David Fulton are linked to this CD-Rom:

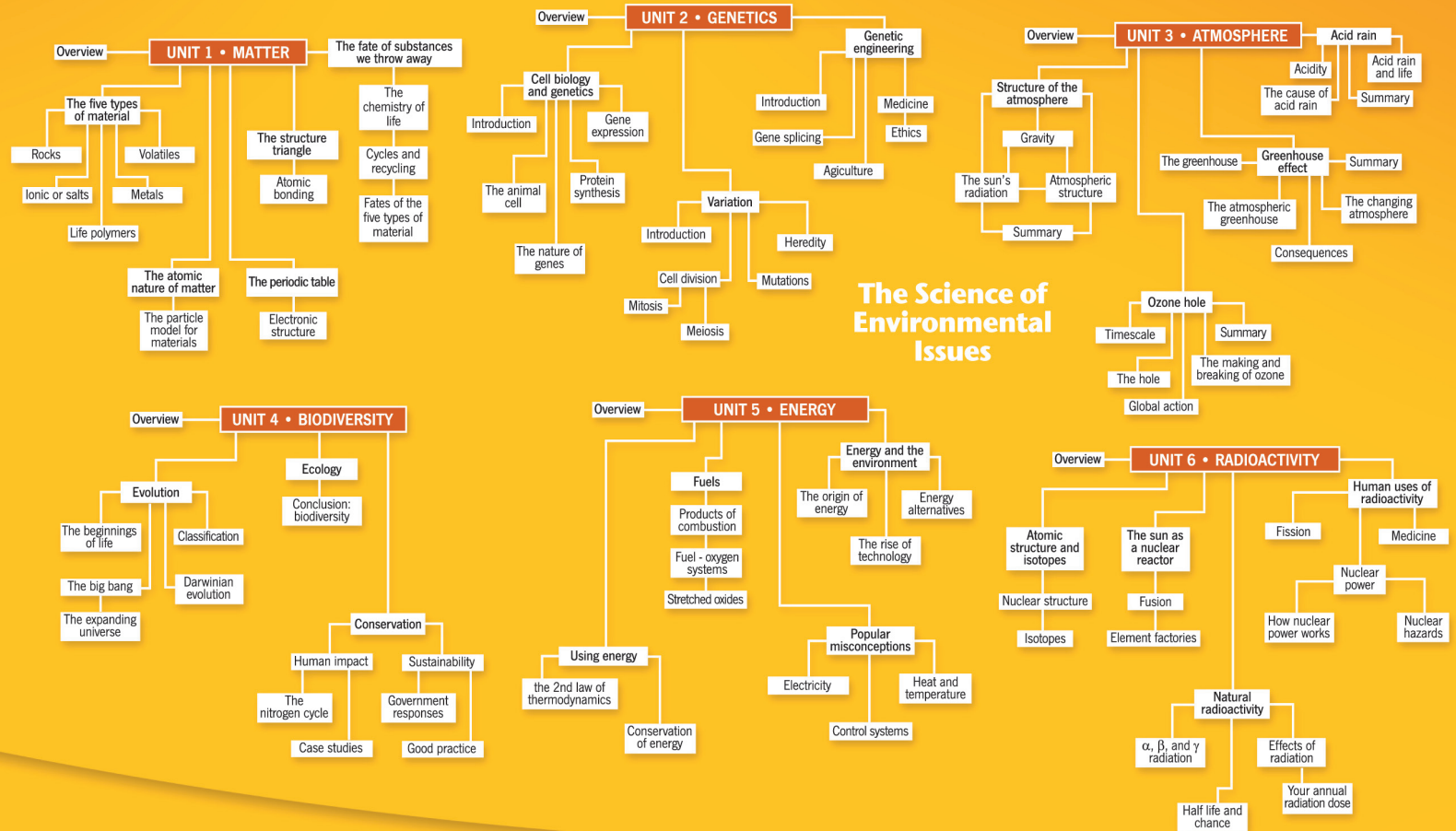
Science Knowledge and the Environment

written with primary teachers in mind, covers most of these issues and some of the learning theory on which the CD is based.
Littledyke M, Ross K and Lakin E (2000)

Teaching Secondary Science

is a guide for Secondary Science Teachers. It shows how the CD can be used to support curriculum work in school.

Ross, K. Laken, E, McKechnie, J. and Baker, J. (2015)
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<http://www.routledge.com/books/details/9780415468862/>



The Science of Everyday Life

