

QUALIFIED FOR LIFE: FOCUS ON SCIENCE

# Free resources

## Lab notes for teachers



Llywodraeth Cymru  
Welsh Government

[www.gov.wales](http://www.gov.wales)

### CERN

Fully funded three week Summer School placements for physics teachers at CERN in Geneva during the month of July. [home.web.cern.ch](http://home.web.cern.ch)

### Linnean Society

Free worksheets, fact files and posters. Boxes to support the teaching of classification and life cycles at primary level can be loaned to schools free of charge. Secondary schools can visit the Linnean Society to view the library and specimen collections. [www.linnean.org](http://www.linnean.org)

### Techniquet Glyndŵr

Free science themed workshops for more able and talented learners at Key Stage 3. Also, free CPD events for teachers. [www.tqg.org.uk](http://www.tqg.org.uk)

### Scibermonkey

Scientific resources website which allows teachers and learners to search for resources and information on a variety of scientific themes. Materials suitable for learners aged 5–16. [www.scibermonkey.org](http://www.scibermonkey.org)

### Nuffield Foundation

Downloadable resources to support science teaching and learning with a particular focus on practical work. Fully funded six week placements in universities and industry for Year 12 students. [www.nuffieldfoundation.org](http://www.nuffieldfoundation.org)

### Learning Wales

Key information and guidance for teachers, and approaches to help improve the quality of teaching and learning. [www.learning.wales.gov.uk/science](http://www.learning.wales.gov.uk/science)

### Hwb

A range of resources to support science teaching and PISA skills across the key stages, including presentations, videos, question banks and interactive activities. [hwb.wales.gov.uk](http://hwb.wales.gov.uk)

### Careers Wales

Free service facilitating partnerships between STEM employers and schools for in class and extra-curricular activities. [www.careerswales.com](http://www.careerswales.com)

### OPAL – The Open Air Laboratory

OPAL Community Scientists based in North and South Wales lead school groups in carrying out scientific surveys of their natural environment. Workshops are free and all materials are supplied. Bilingual resources are available to download if schools wish to carry out the surveys independently. [www.opalexplornature.org](http://www.opalexplornature.org)

### Society of Biology – Biology: Changing the World

Website, free mobile app (for Apple and Android) and free resources, including profiles, posters and teaching notes, packed with information about the great biologists and their discoveries. [biologyheritage.societyofbiology.org](http://biologyheritage.societyofbiology.org)

### British Ecological Society

Lesson resources and ideas to support teaching of ecology. Aimed at secondary schools but can be adapted to suit all ages and abilities. Free full colour wall charts can be sent to schools. [www.britishecologicalsociety.org](http://www.britishecologicalsociety.org)

### School Science

Run by the ASE, this website has free resources to download, and information about competitions and events. [www.schoolscience.co.uk](http://www.schoolscience.co.uk)

### Science and Technology Facilities Council

Free resources available to support science teaching (particularly physics) either to download or as hard copies posted to schools free of charge. Also offer visits to the three National Laboratories in the UK. [www.stfc.ac.uk](http://www.stfc.ac.uk)

### Generation Green – British Gas

Register for free to gain access to lesson plans, games and activities for Key Stages 2 and 3 on the theme of energy. [www.generationgreen.co.uk](http://www.generationgreen.co.uk)

### Into Film

Into Film provide free CPD for teachers to enable them to use film to support their teaching in the classroom and for extra-curricular activities. Some science themed resources on their website with more to follow in the summer term. [www.intofilm.org](http://www.intofilm.org)

### FUSE School – Global Education

A series of short videos created to help learners understand the key principles of science. Accessed via YouTube. [www.YouTube.com](http://www.YouTube.com)

### Society of Biology

Free BioEd newsletter for teachers. Free resources including worksheets, posters and booklets, plus careers information. [www.societyofbiology.org](http://www.societyofbiology.org)

### Wellcome Trust

Free downloadable resources, games, quizzes and activities. Big Picture website and Big Picture magazine available via free subscription. [www.wellcome.ac.uk](http://www.wellcome.ac.uk)

### See Science – STEMNET

Online directory of STEM related events, activities and competitions for teachers and learners. STEM Ambassadors programme, STEM Clubs Network. Half-termly newsletter to schools. [www.see-science.co.uk](http://www.see-science.co.uk)

### Learn Chemistry – Royal Society of Chemistry

Online platform of chemistry resources and teaching materials, a 'One stop shop' for chemistry resources. [www.rsc.org](http://www.rsc.org)

### ChemNet – Royal Society of Chemistry

Online community for 14 to 18 year olds. Study support, careers advice and the opportunity to attend free events. [chemnet.rsc.org](http://chemnet.rsc.org)

### Lab in a Lorry – Institute of Physics

Aimed at 11 to 14 year old learners. Interactive mobile science laboratory. [www.labinalorry.org.uk](http://www.labinalorry.org.uk)

### Physics.org – Institute of Physics

Online educational and careers resources. [www.physics.org](http://www.physics.org)

### National STEM Centre

e-library bringing together thousands of free resources to support science teaching across the age range. [www.nationalstemcentre.org.uk](http://www.nationalstemcentre.org.uk)

### Science made simple®

A series of seven free worksheets on science demos for teachers that sign up to the SMS newsletter. [www.sciencemadesimple.co.uk](http://www.sciencemadesimple.co.uk)

### Techniquet

Techniquet at your school offers free science themed workshops to secondary schools. Also, free CPD events for teachers. [www.techniquet.org](http://www.techniquet.org)

### STEM Cymru

STEM Cymru co-ordinates the Engineering Education Scheme for Wales, F1 in Schools programmes, Wales Rally GB education days and competitions, First Lego League, i2E and Go4SET programmes and Girls into Engineering days. [www.stemcymru.org.uk](http://www.stemcymru.org.uk)



Inspirational science videos  
[www.learning.wales.gov.uk/science](http://www.learning.wales.gov.uk/science)