



RITE2NO

Climate change information for a generation with a 'right to know'

Within the world scientific community there is complete unanimity : climate is changing. The call to action is upon all of us, but especially the younger generations. Indeed, it could be argued that this generation of young people is the most important ever, since it is their action that will determine the fate of humanity and all other life on the planet.

A recent Mori Poll found that half of 16 - 34 year olds felt global warming was the biggest threat we faced, far out stripping global terrorism. We can be pleased that many are aware and care. However, most information on the subject is aimed at adults. For young people, there is a gaping deficiency: even if they want to act, they do not have the resources to match the task.

Last year I was working at Parklands High School, where I was asked to teach Geography at KS3. I clapped my hands - I would slip climate change into every topic area. "But isn't climate change just a theory?" said the HoD when I shared my plans. Many practitioners, because they are so busy and find it hard to keep up, are not aware that the



curriculum at KS3 and 4 is climate change deficient. Consequently the useful information young people get is from the CBBC Newsround bulletin!

To try and address this gap a group of us at Parklands High School set up a group called Rite2no. Rite2no has since expanded into the community and now has around forty young people involved and some adult volunteers. The name Rite2no (Right to Know) was inspired by the UN convention on the rights of the child which states that young people have a right to information and a voice on matters that concern them and affect their lives.

Our activities are fun, accessible, relevant and crucial. We ran a colourful event in a local park, a special course in a castle (travelling there in a biodiesel bus), a discovery trip to meet scientists, visits to see coastal erosion and then solutions at CAT (Centre for Alternative Technology) and Treesponsibility. We also have games, music and quizzes in our own school and linked primary schools. We explore individual and collective decision making, pledges and action, and, are currently making a DVD/video on climate change that will be used in both formal and informal settings. We also plan to build a website where young people can access information and share their views which, we hope, wiser decision makers will take note of.

We welcome any collaborators, links to any groups working in a similar way, any ideas and action on how climate change can become mainstream for this generation.

Tel. Pauline on 0161 448 2834 Email: rite2no_uk@yahoo.co.uk

Editor's notes

'We teach that which we most need to learn' came to mind for this issue about climate change. Young people need and want to see adults taking climate change seriously, talking about it and acting on it. Hopefully this Beehive will inspire just that. Thanks to Pauline for the Rite2no story and all the other contributions.

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Network News

Eco Schools grants for energy and waste

Have you been looking for some money to make your school energy efficient? Have you needed some extra cash to help you get your waste problems sorted? If you visit www.eco-schools.org.uk/switched_on/ you will find an opportunity to apply for funding.

Grants will be awarded to projects around any of the Eco School themes, although priority

will be given to projects themed on energy efficiency, recycling/waste and technological solutions to environmental problems. They are also looking for evidence of whole school involvement and links to the national curriculum.

If you have any brilliant ideas that fulfil this criteria grants are available up to a maximum of £5,000.

There is also a supply of equipment available from energy saving fridges and dishwashers, to energy efficient lamps, heating controls and insulation.

To take advantage of any of this you must be a registered Eco School, have done an environmental audit, identifies a project, and made an application for a grant.

Schools Energy Saving Competition

Do you want to save money, energy and the planet? If your school is in Hulme or Moss Side you have the opportunity to do this by taking part in a competition.

The Schools Energy Saving Competition will involve schools monitoring and reducing their electricity usage throughout a year, with the winning school being the one that saves the

greatest proportion of energy. The winners will not only make huge savings but they will also become the proud owners of a Windsave "Plug'n'Save" turbine system. This will be installed in the school and has the capacity to save up to 0.5 tonnes of CO₂ to further their success.

Manchester City Council has set itself the challenge of becoming Britain's Greenest City and this

project has been set up as a part of this objective. Various council teams with partners such as AfSL, will be involved, while the Energy Management Unit take responsibility for assessing the school's energy consumption.

To take up the Climate Challenge contact Gemma Lee on 0161 953 2760

Lets step through the Energy and Water doorway

The DfES are in the process of developing and launching various tools to help schools become increasingly sustainable. Using what they describe as the 8 doorways, they are in the process of producing a self evaluation tool to help schools assess their credentials when it comes to sustainability.

The 8 doorways are: food and drink, energy and water, traffic and travel, purchasing and waste, building and grounds, inclusion

and participation, local well being and global citizenship.

The DfES have also launched the Sustainable Learning Scheme. This new scheme focuses entirely on the themes of energy and water and offers schools who register lots of information about how to set up an energy team, who to get involved, and gives advice on areas for improving energy efficiency. The web address is www.sustainablelearning.info

Manchester's Eco House

Various school groups have already found Manchester's Eco House in Miles Platting and taken the opportunity to learn about energy conservation. It looks like two Victorian terraces, but inside the project provides the opportunity to view, test and observe ways to save and generate energy.

Eco committees as well as classes have visited the house and found it a valuable resource for ideas and information to take back to school. For further details go to page 5.

GLOBE students monitor Climate change



The GLOBE Programme helps students not only to 'Think Global' but also to act global. Schools from 109 different countries participate in this programme and a huge amount of information has been gathered by participants around global warming.



Global warming does not fit neatly into any subject in the UK National Curriculum but many students feel strongly about the impact humans have made on the environment.

Because of this interest, the subject of global warming can be a good way to introduce other topics. Areas such as environmental change and the impact it has on places and the environment, about weather, ecosystems, population and settlements (when looking at transport) and other environmental issues. It highlights how human processes cause changes in the environment and realising links between causes and effects. How living things and the environment need protection and also how animals and plants are suited to their environments.

The GLOBE Programme offers students the opportunity to carry our 'real' science with a practical approach. Many people are in agreement that we need more information and specifically more data where climate change is concerned. GLOBE is a natural portal for this as there are a number of activities which students can use to focus their study in this area. Four in

particular link well with the subject of climate change and the National Curriculum.

Phenology

(The study of living organisms' response to seasonal and climatic changes in their environment). Plants stand as silent sentinels of climate variation. Seasonal changes include variations in day length or duration of sunlight, precipitation, temperature and other life-controlling factors. Every year, as conditions for plant growth improve, a wave of green spreads over the land surface and then retreats as conditions for plant growth decline. The period between this green-up and green-down or senescence is known as the growing season. Some scientists recently found that the growing season has increased in northern latitudes by eight days since the early 1980s. These changes in the length of the growing season may be an indication of global climate change. The third and fourth activities are Air Temperature and Contrails (the vapour trails made by jet planes in the sky)

Although GLOBE teachers are fully trained in data collection and input, students can often learn better from each other. GLOBE-UK in partnership with WMnet

(West Midlands Broadband Consortium) has developed a series of high-quality streaming video images of students carrying out GLOBE activities related to climate change measurements together in a package of self-help for students to follow at their own pace.

Two GLOBE Schools were selected to represent both Primary (Lickhill Lodge, Worcester) and Secondary (Nicholas Chamberline, Warwickshire) age groups, and within each the four chosen GLOBE activities are demonstrated. A fifth video clip acts as an introduction, giving ten school-based clips in all.

In addition GLOBE's links with the UK Met Office and its Hadley Climate Change Research Centre have been further developed to provide additional video footage from Met Office experts on the value of student data in monitoring climate change.

To view the videos or find out further information on the GLOBE Programme visit the web site at www.globe.org.uk

A guide for Manchester schools: how to combat Climate Change

Climate change is the biggest issue currently facing the planet. Consequently it's urgent we inform ourselves of the issues and actions we need to take in order to combat it. Perhaps more importantly, as educators, we need to find the means to equip young people with the right knowledge, skills and values to deal with the world they are inheriting from us.

What is climate change? The Earth is protected by a blanket of gases. Unfortunately this blanket is thickening due to human activities which are adding CO₂ and other greenhouse gases into the atmosphere. Normally when the Sun's rays penetrate the Earth's atmosphere a certain amount would be reflected back into space. However, the thickened layer prevents this from happening as easily, so heat is being trapped. Hence the term global warming.

What can we do? We need to reduce our output of CO₂ and other global warming gases. This means we need to stop using fossil fuels and reduce our consumption of energy – energy efficiency is of prime importance in meeting targets about CO₂ emissions.

There are various ways to help your school engage with this issue: you might want to join Eco Schools and find that the Eco Committee take this issue up as a priority. Or join the

Sustainable Learning Programme which gives support to schools saving energy and water. Or you may want to invite local organisations into your school to help deliver the issue, or organise a school trip around climate change.

So here is a list of organisations, groups and individuals to help learning about climate change become fun and informative, exciting as well as challenging:

Who to invite into school:

DEP Can provide stimulating and participatory workshops for Primary and High Schools on climate change as well as deliver INSET on the subject. They can also offer an exciting climate change simulation summit for High Schools which is guaranteed to get everyone involved.

Contact Anne Strachan on 0161 921 8020 for details and costs.

Friends of the Earth Climate change is a big issue for FOE at the moment and they will be keen to engage. They will deliver in schools subject to availability as the group is run by volunteers. Also remember to mention the FOE teaching resource 'Shout about Climate Change'.

For further information contact Dave Coleman or Ali Abbas on 0161 834 8221.



Melissa Littlestone: Provides Environmental Education workshops around Climate Change, (also woodlands, the water cycle and outdoor classroom sessions) for Primary Schools and High Schools. The Introduction to Climate Change workshop has an interactive presentation, quizzes and games. Please contact for details/cost. Contact Melissa on 07790 377 806

Rite2no: The Rite2no group is a local group (South Manchester) who intend to combat Climate Change. Offering support to High schools and Primary schools Rite2no can offer fun, accessible and relevant activities exploring decision making, making pledges and taking action. Please contact for details/costs.

Contact Pauline on 0161 448 2834 or email rite2no_uk@yahoo.co.uk

The Energy Management Unit For practical help around saving energy and water contact this team. They will give advice on energy usage, do surveys and monitor energy use. A good help in setting up energy saving campaigns.

Contact Walter Dooley on 0161 234 3633.

Places to visit:

Manchester's Eco House An opportunity to learn about energy efficiency on your doorstep. The Eco House project, run by Manchester City Council's Energy Group, is a good place to visit to see how things could be done to save energy. It is at 26 -28 Penzance Street, Miles Platting, M40 7BD To book a visit contact Diana Clayton on 0161 242 5823.

MERCi

(Manchester Environmental Resource Centre initiative)

MERCi offers tours around its building showing working examples of sustainable refurbishment. Talks and curriculum linked sessions around climate change can be provided for all key stages, if booked in advance.

For more information contact Caroline Downey or Jemma Bromley on 0161 273 1736.

Things to look out for:

Trucking with Climate Change:

From January 2007 a multi-media interactive exhibition about Climate Change will be available to hire with a Climate Change Education Worker who will be able to offer training and workshops to teachers, pupils and the wider public.

Funded by DEFRA under 'Tomorrow's Climate, Today's Challenge' the Global Link Development Education Centre in Lancaster is creating a trailer where participants will walk through four rooms containing moving images, 3D models, text, images and sounds. The first room explores the consequences

Treesponsibility: Based in Hebden Bridge Treesponsibility is a community initiative combining reforestation with awareness raising about Climate Change. They offer school parties the opportunity to get involved with tree planting by running special planting days and weekend planting breaks. A real opportunity to get back to nature.

Contact Penny Eastwood on 01422 843 222.

The Alternative Technology

Centre: Based in Hebden Bridge this is a great place to visit if you want to learn about renewable energy. The visitor centre has exhibitions and working examples of renewable technologies. They also have a plastics recycling factory.

For details about visits and what's on offer call ATC on 01422 842121

of climate change for people in the global South; the second room looks at the scientific causes and consequences; the third will look at the impact on Britain and the fourth at how we can achieve a better future. Contact Gisela Renolds on 01524 36201 or go to www.globallink.org.uk

Fruits of the Red Rose Forest

Planting trees is always a good way of absorbing CO2 from the atmosphere so look out for opportunities from the Red Rose Forest – soon they will be trying to get us to grow orchards.

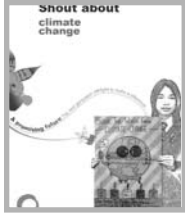
For any further information ring Ellen Hawkins on 0161 872 1660



Wythenshawe's Climate Change Communication Project

Look out for the opportunity for your voice to be heard on climate change. Wythenshawe FM, with partners UHC (an arts collective) and MERCi (a Manchester environmental organisation), have funding from DEFRA to create a mobile learning environment which will explore and develop Wythenshawe's response to climate change. The 'pod' will be touring community venues in the Spring. For further details email info@wfmradio.org

Resources



Shout about Climate Change

Education pack for KS3
Published by Friends of the Earth –
order a pack or download it on
www.foe.co.uk.

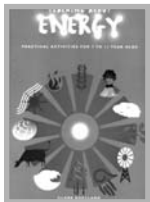
This resource covers four areas – What is climate change? Effects of climate change, Solutions to climate change and What can we do? – and is packed with information, activities and case studies. Not the fanciest resource but it contains everything you need.



Why should I save energy? Jen Green,

published by Hodder Wayland in
association with WWF. £4.99
ISBN 0-780750 236874

One in a series of books about the environment aimed at KS1, this book uses great pictures and simple text to show the importance of saving energy. With useful notes for parents and teachers, complimented by simple tasks for children to save energy, it is both a great tool and a fun read.



Teaching about Energy.

Clare Eastland, published by Southgate
Publishers in association with Centre for
Alternative Technology. £7.95
ISBN 1-85741-088-2

Aimed at KS2 this exciting book is overflowing with investigations, experiments, games, design and build projects and demonstrations around energy. Linked into national curriculum requirements for Science, Geography, Design and Technology in particular, it deals with energy from the sun, plants animals, water and storing and saving energy.



Climate Change ~ local & global: An Enquiry Approach

Published by and available from: Teachers in
Education £10
ISBN 0 94883892 2

This fantastic resource has been produced by
teacher groups in the West Midlands to help

support children's enquiry into the complex issues of Climate Change. The booklet contains excellent stimulus material including images, simplistic diagrams, key words, resource lists and activity ideas. Suitable for Key Stage 3 & 4 it is based upon learning through enquiry to develop knowledge and understanding.

Web resources

[www.wwflearning.org.uk/data/files/
climate-chaos-293.pdf](http://www.wwflearning.org.uk/data/files/climate-chaos-293.pdf)

WWF have a fantastic resource called Climate Chaos with excellent lesson plans for both Primary and High Schools. If you want to teach about climate change this is a must to be downloaded. For example, take two thermometers and put them out in the sun – put a jam jar over one of them and record the temperatures as a means for explaining how climate change works.

www.sustainablelearning.info

This new scheme (replacing Energy Certification,) is dedicated to help you save energy and water consumption in your school. By registering you can access information to help you set up an energy team, get advice on who to get involved with lots of suggestions for areas to be improved. A very useful tool for all schools.

www.climatechallenge.gov.uk

For everything you need to know about climate change and what the government is doing to stop it.

www.climatecare.org/eco-schools/

Visit this webpage to find out how much CO₂ your air travel has cost and find the means to put things right. There are also case studies of the work Climate Care have done with schools in other parts of the world. If you visit these you may get inspiration for a project which could be funded by the Eco-Schools grant.

Film:

look out for 'An Inconvenient Truth' Al Gore's brilliant film all about climate change. A great way to understand the issues for adults and older pupils. A real revelation!

Diary: training opportunities and events

October

Thursday 19th October 2006 **Eco Schools Forum and Green Fair – Climate Change**

MEEN and Manchester City Council's Environmental Campaigns team

Free, but please book a place.
Friends Meeting House, 6 Mount Street, Manchester M2

Contact Raichael on 0161 273 8881 or Gemma and Di on 0161 953 2760

This annual event brings together Manchester's Eco Schools teachers and supporters and links them with a host of organisations who can deliver Environmental Education and Education for Sustainable Development. This year the theme is Climate Change, what it is, how to teach and inspire people to engage in the issue, and

how it links to the outdoors and biodiversity. This is an event not to be missed for training and networking opportunities. There will be workshops from Treesponsibility, the Rite2No climate group, facilitated by High School teacher Pauline Lozoya, amongst others. There will be resources to explore and experiences to share.

Monday 23rd October 2006 **Sensory Environmental Exploration for Early Years**

Environmental Trainers Network
£105 + VAT for voluntary orgs/£160 + VAT for others
Sheffield

Contact Helen on tel: 0121 359 2113 or email:ETN@btcv.org.uk

A popular day for early years practitioners in any capacity, this event will show you simple but effective ways to help small people enjoy their environment.

Thursday 26th October 2006 **Working with schools on Sustainable Development Education**

Environmental Trainers Network
£105 + VAT for voluntary orgs/£160 + VAT for others
London

Contact Helen on tel: 0121 359 2113 or email:ETN@btcv.org.uk

This session introduces a range of approaches and frameworks for investigating sustainable development issues with children/young people, including planning and evaluation, the National Curriculum, information and resources that are available. The event will interest teachers, local authority officers, community and environmental workers who work with schools.

November

Wednesday 1st November 2006 **Practical approaches to ESD**

Environmental Trainers Network
£105 + VAT for voluntary orgs/£160 + VAT for others
Birmingham

Contact Helen on tel: 0121 359 2113 or email:ETN@btcv.org.uk

This brings together ESD with out of classroom learning. The event will introduce a range of practical tools, approaches and activities for exploring with young people the complex issues surrounding sustainable development through visits, street work and field work. Good for teachers and others in the voluntary/public sector working with schools and young people in informal settings.

Tuesday 7th November 2006 **Linking Environmental Education activities to the National Curriculum**

Environmental Trainers Network
£105 + VAT for voluntary orgs/£160 + VAT for others
Leeds

Contact Helen on tel: 0121 359 2113 or email:ETN@btcv.org.uk

Aimed at environmental educators, rangers and countryside wardens this event should help de-mystify the curriculum and other schools related documents and help you to find out where your topic links to different subject areas, bringing your environmental work more in line with the needs of schools.

Thursday 9th November 2006 **Working with waste**

Bishops Wood Centre
£115 +VAT Reduced cost £85
Bishop wood Centre, Crossway Green, Stourport. Worcestershire DY13 9SE

Contact 01299 250513 or email bishopswoodcourses@worcestershire.gov.uk

Aimed at recycling officers, teachers and other environmental educators the day will explore; resources, activities, curriculum and the sharing of good practise from around the country.

December

Tuesday 12th December 2006 **Energy Education with young people**

Environmental Trainers Network
£105 + VAT for voluntary orgs/£160 + VAT for others
Manchester

Contact Helen on tel: 0121 359 2113 or email:ETN@btcv.org.uk
A practical, participative workshop to show how learning about energy efficiency can be made fun and exciting for all ages. It will explore a wide range

of tools and ideas, games and interactive activities for both inside and outside the school environment. Excellent for learning about energy efficiency.

What is Manchester Environmental Education Network?

Manchester Environmental Education Network (MEEN) is a membership-based organisation aiming "To inspire and motivate learning about sustainability by building a network of people actively committed to Education for Sustainable Development (ESD) in Manchester." The network was established by six partner organisations involved in the project, and currently employs a network coordinator and a Sustainable Schools Project coordinator.

Membership of the network offers:

- * free network directory (pay only for P&P) - while stocks last
- * free termly newsletter
- * support from network coordinator
- * reduced entrance to MEEN events
- * a voice in how MEEN is run and the activities of the network

Project Partners:

Development Education Project (DEP),

Laurel Cottage
c/o MMU 799 Wilmslow Road
Manchester M20 2RR
Tel: 0161 921 8020

Groundwork Manchester, Salford and Trafford,

Timber Wharf,
42-50 Worsley Street
Castlefield
M15 4LD
Tel: 0161 220 1000

Manchester Environmental Resource Centre initiative

(MERCi),
Bridge-5 Mill,
22a Beswick Street, Ancoats,
Manchester. M4 7HR
Tel: 0161 273 1736

Manchester Healthy Schools Partnership,

Mauldeth House,
Mauldeth Road West, Chorlton.
Manchester. M21 7RL
Tel: 0161 882 2313

Environmental Campaigns

Manchester City Council
3rd Floor, Pink Bank Lane, Belle
Vue, Manchester M12 5QN
Tel: 0161 953 2760

Mersey Basin Trust,

Bridge-5 Mill, 22a Beswick Street,
Ancoats, Manchester. M4 7HR
Tel: 0161 273 4207
merseybasintrust@hotmail.com
www..merseybasintrust.org.uk

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Membership of Manchester Environmental Education Network (MEEN)

Please fill in this form and return to the network coordinator at the above address, enclosing a cheque for the relevant amount.

Name School / Organisation Subject (where applicable)

Address

Tel Fax E-mail

Schools / Organisations - Manchester	£8
Individuals - Manchester (waged / unwaged)	£5 / £2
Non-Manchester based membership	£12
Please add P&P for directory	£2

TOTAL

I enclose a cheque payable to 'MEEN' for £_____