

Climate Change Resources

for North Yorkshire and York Schools

Schools Climate Change Initiative was a partnership project between all the councils in York and North Yorkshire to produce curriculum activities and resources to help schools address climate change.



Working with six pilot schools across York and North Yorkshire, the initiative has developed new curriculum resources and activities, which are now available to schools as outlined in this leaflet.

York & North Yorkshire's
Schools Climate Change Initiative



Schools Climate Change Initiative

Extensive resources are available to loan to schools within North Yorkshire and York as shown below. There are several banks of resources throughout York and North Yorkshire and if you wish to borrow any of the items, please initially contact Harrogate Borough Council on 01423 556909. The resources are linked to different subjects within the curriculum.

Ray Guns (KS1 – KS4)

A set of these child friendly ray guns can be easily used to determine the temperature difference between objects by pointing the 'ray beam' on them. It's a good way to find the cold and hot spots in your school building and where further insulation is needed.

Eco-House Model (KS1 – KS4)

A large 3D model of a two storey house (approx 1m³) showing how it could be environmentally friendly. Children enjoy looking at the different rooms and there is an exercise to identify the 20 plus improvements.

Windfarm Role Play Game (KS2 – KS4)

Based loosely on real life events, the children assume different roles in a debate to decide whether to have a windfarm in North Yorkshire.

Insulation Kit (KS2 – KS4)

Examples of different insulation materials and exercises to explore their properties.

Energy Bike (KS1 – KS4)

This exercise bike has been converted to generate electricity to power a set of efficient and not-so-efficient light bulbs. It is an energetic way to vividly show which light bulbs use higher levels of energy.

Climate Action Programmes Boxes (KS1 – KS2)

The box contains hard copies of all the six Climate Action Programme lesson plans and teachers' notes, along with laminated fact cards, small props, a greenhouse effect experiment kit and card games.



Visit: www.harrogate.gov.uk/climatechangeexchange
Email: environmentalprojects@harrogate.gov.uk

Electric Monitoring Kit (KS2 – KS4)

Any electrical appliance can be plugged into these monitors to show exactly how many units of electricity it is using, how much it costs to run, and how much carbon dioxide is being released as a result.

Solar Cars (KS1 – KS4)

These model cars are a fantastic way to show how sunlight can be used to power electrically driven items.

Mini-Renewable Models (KS2 – KS3)

These provide an excellent scaled-down demonstration of renewable energy. They are easy to set up and use and are hard-wearing

Additional written support materials are available and can also be found on our website:

- **History of Climate Change – (KS2 – KS3)**
Summary of climate change since 1712.
- **School Case Studies – (Teachers)**
What the six pilot schools achieved.
- **Local Case Studies – (Teachers/KS2 – KS4)**
Examples within North Yorkshire and York of the impact of climate change and efforts to address it, e.g. renewable energy.
- **Maths Energy Scheme – (KS3 – KS4)**
Analysing schools electric data as a maths related project.
- **Cross Curriculum Day Ideas – (KS2 – KS4)**
Ideas for whole year interaction across different subjects.
- **Home Topic (KS1 – KS2)**
Looking at homes and the environmentally friendly versions, with advice on lesson planning and resources.

To download these visit www.harrogate.gov.uk/climatechangeexchange



To book the above resources

If you would like more information about the above, and/or would like to book any of the classroom resources, please email:

environmentalprojects@harrogate.gov.uk

or telephone 01423 556909 and ask for the Environmental Projects Officer

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Schools Climate Change Initiative

All councils in the North Yorkshire and York areas supported the Schools' Climate Change programme, which was funded through the Regional Improvement and Efficiency Partnership. The initiative was established to help tackle climate change locally. Results of a study found that schools within North Yorkshire are contributing 70 per cent of the council's CO₂ emissions, and energy costs could be reduced through increased awareness and better insulation.

The North Yorkshire & York Schools Climate Change Initiative is led and supported by:



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