

AIR POLLUTION DETECTIVES

Air Pollution Detectives

Home

Suspects

Crime Scene

How does it affect me?

What can I do?

Climate Change

Hi, we're Maggie and Rabbie,
the Air Pollution detectives!

We are trying to find out what makes
our air polluted. Come and join us on
our adventure...

Start Here



Scottish Air Quality Database: Children's Pages:

<http://www.scottishairquality.co.uk/children/>



The Scottish
Government
Riaghaltas na h-Alba

Air Pollution Detectives



- Development of a Children's site on the Scottish Air Quality Database.
- Intended to increase interest and awareness of air quality and climate change.
- Link to the Curriculum.
- Scottish Government, Cheryl Borthwick (ICT/GLOW Development Officer Edinburgh), Wendy French of Learning and Teaching Scotland and Ian Menzies of the Developing Global Citizens team.



General Approach

- The children's pages are targeted in design and content to children aged 8-9, although the content may also be suitable for children aged 7-11 as well.
- The pages aim to encourage independent thinking from the users, in-line with current educational objectives within Scotland.
- Users are encouraged to think about the issues beyond the web pages with appropriate links to other websites and organisations.



General Approach II



- Each page has been designed to be as fun and interactive as possible, to encourage user participation and understanding of the content.
- In order to do this as effectively as possible, we ran a pilot exercise recently, which Cheryl has kindly agreed to speak about next.....
- So, a brief introduction....

- The pages have a bright and fun design targeted specifically at the target age group, without the more complex website content surrounding it.
- Pages link directly to the Scottish Air Quality Database and also the GLOW initiative.
- The site includes several characters and includes voice-overs to enable a lot of the content to be read out loud.

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- The content of the children's pages has been created with the target age group in mind.

- Homepage
- Top Suspects



The screenshot shows a child-friendly website titled "AIR POLLUTION DETECTIVES". The page is designed to look like a notebook with a spiral binding on the left. The main heading is "Nitrogen dioxide". Below the heading, there are two paragraphs of text explaining what nitrogen dioxide is and how it is formed. To the right of the text are two cartoon characters, a girl and a boy, representing detectives. At the bottom of the page, there is a yellow box with the word "QUIZ" and the text "Test what you have learnt today!". The website also features a navigation menu at the top right with options like "Home", "Suspects", "Crime Scene", "How does it affect me?", "What can I do?", and "Climate Change".

AIR POLLUTION DETECTIVES

Home Suspects Crime Scene
How does it affect me? What can I do? Climate Change

Ozone
Nitrogen Dioxide
Sulphur Dioxide
Carbon Monoxide
Particulate Matter

Nitrogen dioxide

Nitrogen dioxide is easier to find. He can normally be found around vehicles and busy roads. He is a reddish, brown gas that smells horrible. He is also poisonous and very harmful to us. If you breathed in lots of nitrogen dioxide it would make breathing difficult, give you pains in your chest and it might damage your lungs.

Nitrogen dioxide is part of a family called the 'oxides of nitrogen'. His sister, nitric oxide is a bit nicer - she is colourless, doesn't smell and isn't harmful to humans at all. But when nitric oxide meets oxygen in the air, she very quickly changes and becomes nitrogen dioxide, which is bad for us and the environment.

So, anything that emits nitric oxide into the air we breathe can make nitrogen dioxide pollution. This includes almost anything that burns fuels, but especially cars and other vehicles.

Once you've read about all the suspects that cause pollution, take the quiz by clicking below:

QUIZ
Test what you have learnt today!

© 2015 created and maintained by AEA
A standard monitor and medium web browser is strongly recommended for the website

AEA glow

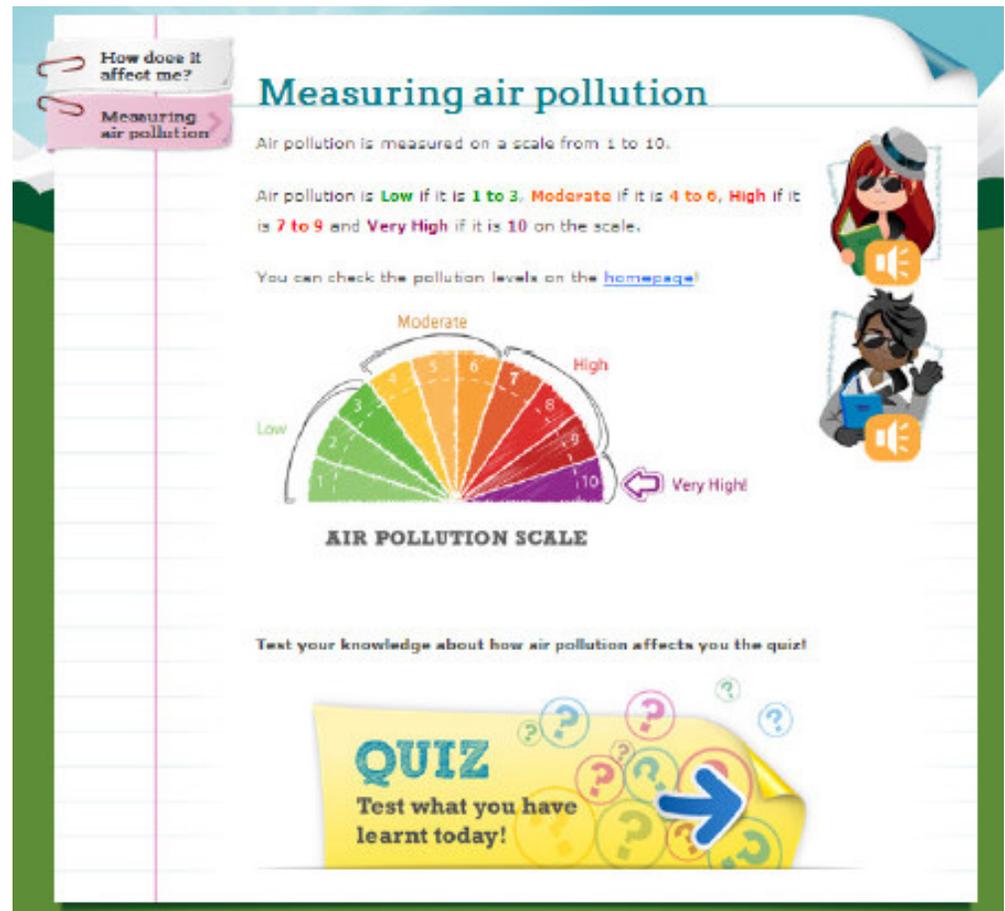
- The content of the children's pages has been created with the target age group in mind.

- Homepage
- Top Suspects
- Crime Scene - sources



- The content of the children's pages has been created with the target age group in mind.

- Homepage
- Top Suspects
- Crime Scene – sources
- How does it affect me?



The screenshot shows a page titled "Measuring air pollution" with a notebook theme. On the left, two paperclip icons are attached to a pink tab labeled "Measuring air pollution" and a white tab labeled "How does it affect me?". The main text explains that air pollution is measured on a scale from 1 to 10. It defines the levels: Low (1 to 3), Moderate (4 to 6), High (7 to 9), and Very High (10). A link to the homepage is provided. Below the text is a semi-circular "AIR POLLUTION SCALE" with 10 numbered segments in a rainbow gradient. To the right of the scale are two cartoon characters, a girl and a boy, each with a speaker icon. At the bottom, a yellow banner with question marks and a blue arrow says "QUIZ Test what you have learnt today!".

Measuring air pollution

Air pollution is measured on a scale from 1 to 10.

Air pollution is **Low** if it is **1 to 3**, **Moderate** if it is **4 to 6**, **High** if it is **7 to 9** and **Very High** if it is **10** on the scale.

You can check the pollution levels on the [homepage!](#)

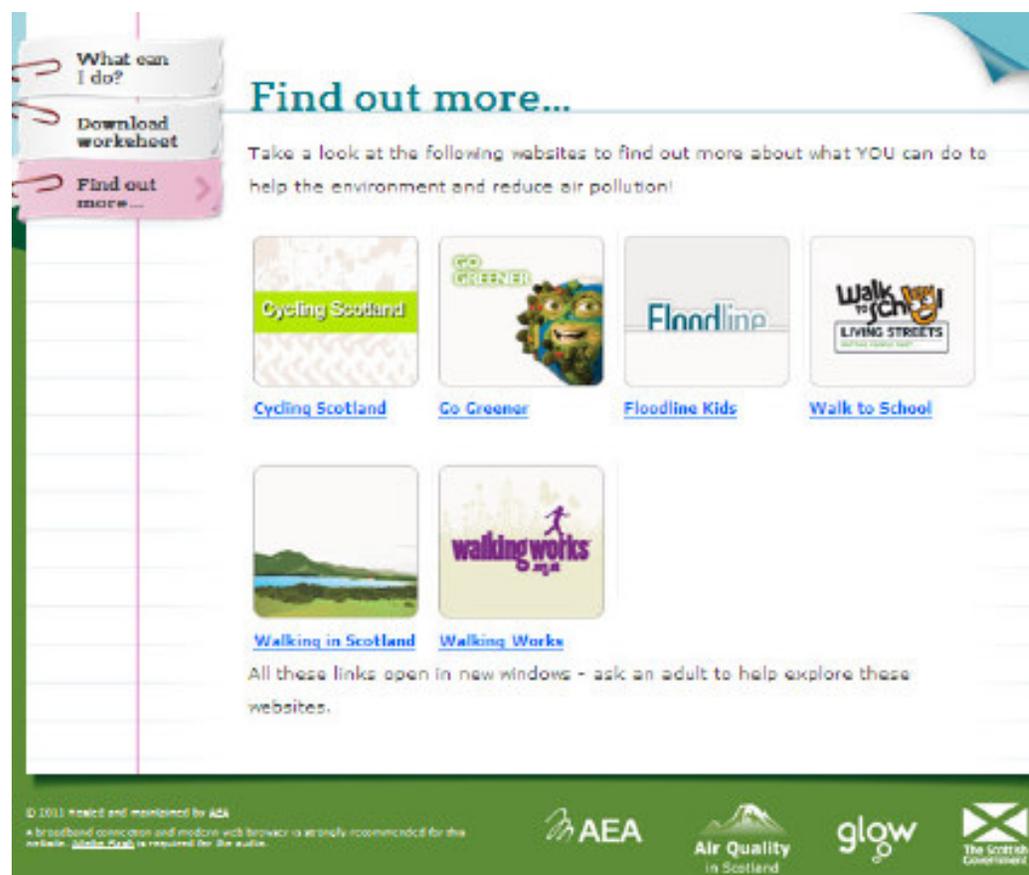
AIR POLLUTION SCALE

Test your knowledge about how air pollution affects you the quiz!

QUIZ
Test what you have learnt today!

- The content of the children's pages has been created with the target age group in mind.

- Homepage
- Top Suspects
- Crime Scene – sources
- How does it affect me?
- What can I do?



What can I do?

Download worksheet

Find out more...

Find out more...

Take a look at the following websites to find out more about what YOU can do to help the environment and reduce air pollution!

- [Cycling Scotland](#)
- [Go Greener](#)
- [Floodline Kids](#)
- [Walk to School](#)
- [Walking in Scotland](#)
- [Walking Works](#)

All these links open in new windows - ask an adult to help explore these websites.

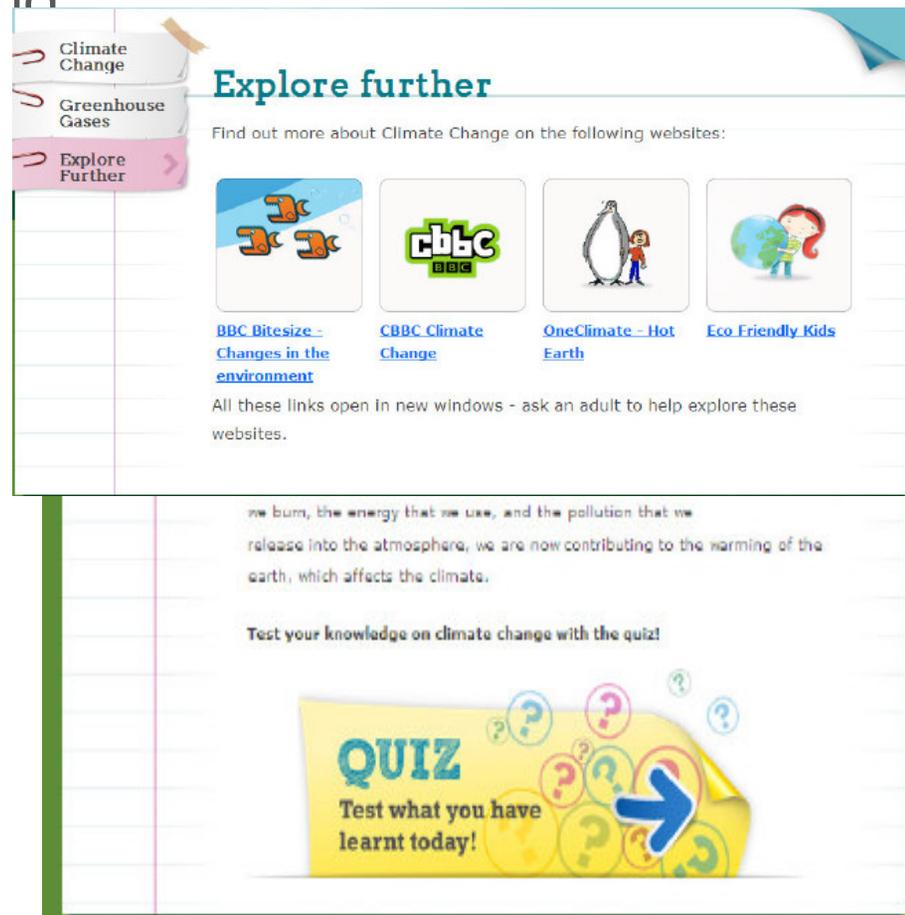
© 2011. Created and maintained by AEA
A broadband connection and modern web browser is strongly recommended for the website. [Accessibility](#) is required for the audio.



Content

- The content of the children's pages has been created with the target age group in mind

- Homepage
- Top Suspects
- Crime Scene – sources
- How does it affect me?
- What can I do?
- Climate Change



Climate Change

Greenhouse Gases

Explore Further

Explore further

Find out more about Climate Change on the following websites:

-  [BBC Bitesize - Changes in the environment](#)
-  [CBBC Climate Change](#)
-  [OneClimate - Hot Earth](#)
-  [Eco-Friendly Kids](#)

All these links open in new windows - ask an adult to help explore these websites.

we burn, the energy that we use, and the pollution that we release into the atmosphere, we are now contributing to the warming of the earth, which affects the climate.

Test your knowledge on climate change with the quiz!

QUIZ
Test what you have learnt today!

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- Homepage
- Top Suspects
- Crime Scene – sources
- How does it affect me?
- What can I do?
- Climate Change
- Quiz

