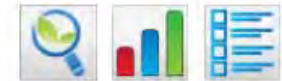




About Us



The gateway to everything you want to know about Scotland's environment

Scotland's Environment Web aims to be a trusted gateway to everything you want to know about Scotland's environment, bringing together information and data from a range of organisations involved in protecting and improving Scotland's environment.

The website presents environmental information and data in an easily accessible form and adopts an innovative and dynamic approach to the provision of information.

The website is managed by Scotland's Environment Web partnership, chaired by the Scottish Government.

Scotland's Environment Web provides access to information at a range of levels:

Search facilities that allow users to find data and reports on Scotland's environment

More detailed information and data for those with a technical interest

Straight-forward descriptions of the condition of Scotland's environment, its value, the threats it faces, and what is being done about these

Information on how you can get involved in protecting and improving Scotland's environment

The ability to look at information and data on maps

Scotland's Environment partners

More information about Scotland's Environment Web partners



[View our partners](#)

Scotland's Environment family

Our related websites provide more detail on specific topics featured on Scotland's Environment Web. There are two related websites currently available, focusing on aquaculture and soils.



Aquaculture



Soils

What are you interested in?

News about Scotland's environment

- SEWeb has been chosen as one of 24 Best LIFE Environment projects in 2015. Find out more of what we've done...
- March Newsletter: It's all about YOU...and Science
- New map layers have been added to our Maps including:- Predator control for Black Grouse (FCS), Suitability for pollinators (bees) (JHI) and Potential for crop production (JHI)
- February Newsletter: Love is in the air quality
- January Newsletter: It's all about the waste...
- Report an invasive non-native species using Scotland's Environment's new INNS section
- Check out our new What's in my area app and find out more about the environment where you are.
- Sea bed development opportunities - British Geological Survey - 23 Mar 2016
- Met Office involved in research to revolutionise pollen forecasting - Met Office - 23 Mar 2016
- Marine tourism success - Scottish Government - 23 Mar 2016
- Free access to marine treasure trove from the British Geological Survey - British Geological Survey - 23 Mar 2016
- Scottish beaver update - Scottish Government - 23 Mar 2016
- SNH: plan now to preserve ancient rainforest species - Scottish Natural Heritage - 22 Mar 2016
- Lewis and Harris goose management pilot project extension - Scottish Natural Heritage - 21 Mar 2016
- Celebrate Earth Hour 2016 by turning Lights-Off for one hour on Saturday 19 March 2016 at 20:30hrs - Earth Hour - 19 Mar 2016
- UK pledges 'zero carbon' climate laws - BBC News - 15 Mar 2016
- Building for the future - Scottish Environment Protection Agency - 15 Mar 2016
- Eat Drink Hebrides Trail launched - Scottish Natural Heritage - 11 Mar 2016
- £2m pledged to safeguard Britain's trees - The James Hutton Institute - 10 Mar 2016

[Read more news](#)





[Back to Scotland's Environment](#)

[Search Projects](#)

[Sign In | Register](#)



[Add a Project](#)



[Search Projects](#)



[Register](#)

Get Involved with understanding and improving Scotland's environment

You can help to collect the data and information that will improve our understanding of Scotland's environment by taking part in one of the many 'citizen science' projects that are running in Scotland. For example you could record sightings of animals and plants, observe local weather patterns, or help to monitor the quality of the air, land and water in your local area.

Or you can get involved in 'citizen action' projects that help to improve our environment, such as removing litter from your local beach, making your garden more wildlife friendly, or promoting safe routes for walking and cycling to school or work.

Just click on the 'Search Projects' button to explore the wide range of projects on offer and find ones that you want to take part in.

If you are an organisation that runs citizen science or action projects, you can register a profile of your organisation and add details of projects that you want people to volunteer for.

You can also get help with setting up your own citizen science and action projects by using the interactive toolkit which contains good practice guidance, help for teachers and [IT tools](#).

Search Projects

[Help](#)

Search Criteria

Organisation
 Key Topics
 Location

Date from
 Date to
 Added
 Keywords

Do At Home Local Community
 Family Schools and Youth
 Getting Outdoors

[CLEAR ALL FILTERS](#) [SEARCH](#)

Search Results

Sort by: [SORT](#)



Montane transects

by BTO Scotland



Type: Organisation Area: All

Do you spend time above 750m in Scotland's mountains? If you do, you could help us to monitor the specialist bird species which live in these habitats. ...[read more]



WeBS

by BTO Scotland



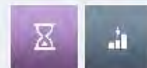
Type: Organisation Area: All

The Wetland Bird Survey (WeBS) monitors non-breeding waterbirds in the UK. WeBS aims to identify population sizes, determine trends in numbers and distribution and to identify important sites for waterbirds. ...[read more]



BirdTrack

by BTO Scotland



Type: Organisation Area: All

To participate, simply keep a record of the birds that you see. When you combined with records from thousands of other birdwatchers these records area extremely useful. Enter sightings via website of phone app. ...[read more]



Breeding Bird Survey

by BTO Scotland



Type: Organisation Area: All

The BTO/JNCC/RSPB Breeding Bird Survey is the main scheme for monitoring the population changes of the UK's commoner breeding birds. ...[read more]





Search Projects

[Help ?](#)

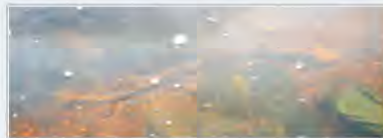
Search Criteria

Organisation	Scottish Environment Protection Agency	Date from	<input type="text"/>	Date to	<input type="text"/>	<input type="checkbox"/> Do At Home	<input type="checkbox"/> Local Community
Key Topics	All	Added	Any Time			<input type="checkbox"/> Family	<input type="checkbox"/> Schools and Youth
Location	All	Keywords	<input type="text"/>			<input type="checkbox"/> Getting Outdoors	

[CLEAR ALL FILTERS](#) [SEARCH](#)

Search Results

Sort by: Project Title a-z [SORT](#)



Lamprey Watch Scotland - 2015

by Scottish Environment Protection Agency

Lamprey Watch aims to raise awareness lampreys in Scottish waters. We wish to encourage anyone with access to suitable rivers to look out for lampreys during the spawning season (typically June - July) and submit simple records of any observations. ...[read more]

Type: Organisation Area: All



Volunteer Rainfall Observing

by Scottish Environment Protection Agency

Across Scotland members of the public have volunteered to measure rainfall in their local area as part of our national rainfall monitoring programme. Recording rainfall is crucial to a number of nationwide services and our volunteer rainfall observers play an invaluable role in capturing information ...[read more]

Type: Organisation Area: All



Anglers Riverfly Monitoring Initiative

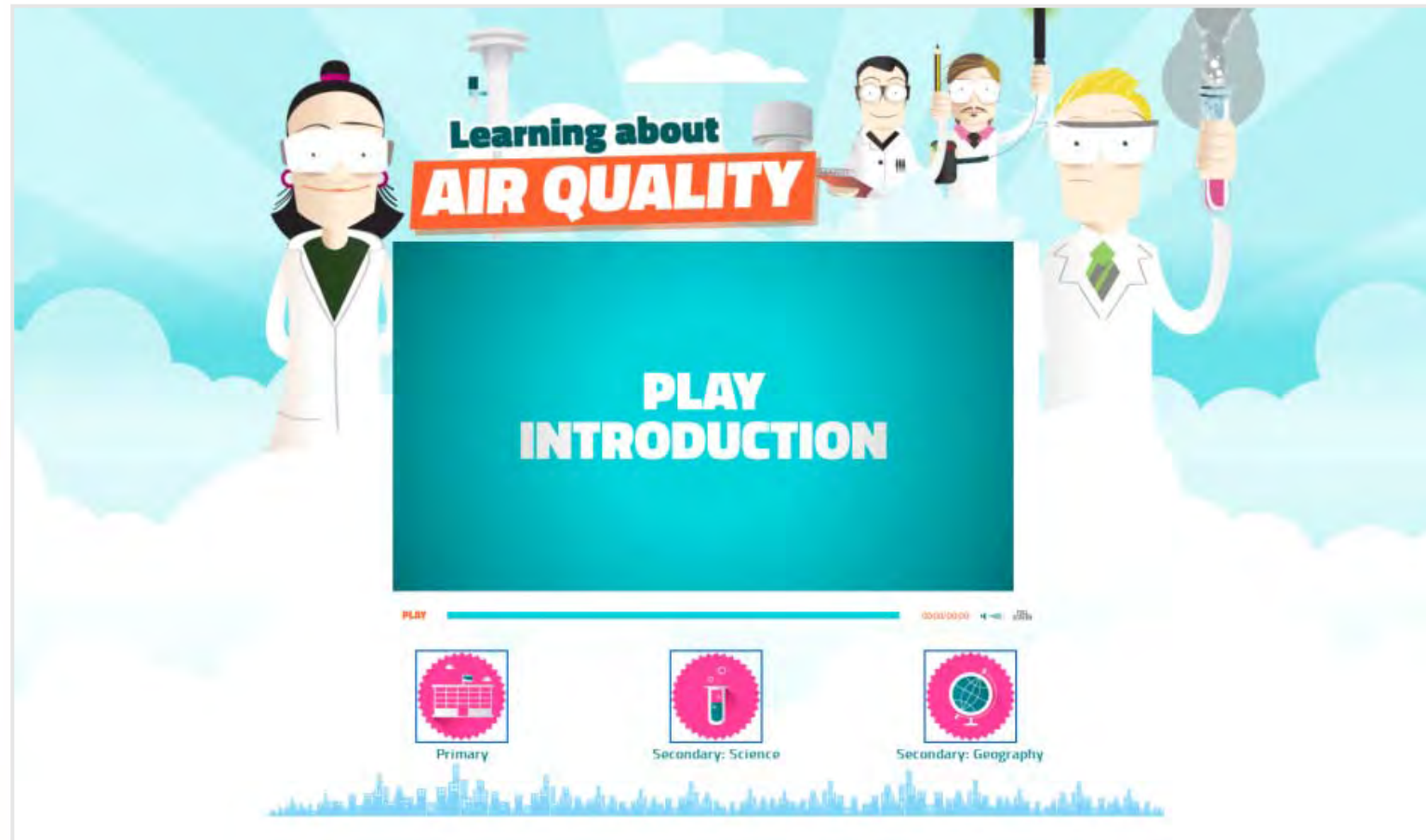
by Scottish Environment Protection Agency

Anglers are in an ideal position to monitor the health of the rivers they fish, and the Riverfly Partnership allows them and other interested volunteers to take action that will help conserve the river environment. This initiative provides a simple monitoring technique which groups can use to detect ...[read more]

Type: Organisation Area: All



Learn About Air Quality





Urban Air Quality Citizen Science Programme started 2013

Urban air quality citizen science

Project overview report

Hilary Cowie¹, Stefan Reis², Kerry Riddell³, Semple⁴

Citizen Science Advisory Group

Focus on Schools and Transport

¹Institute of Occupational Medicine
²NERC Centre for Ecology & Hydrology
³The Conservation Volunteers
⁴University of Aberdeen

Pilot Projects 2014
- Glasgow Bike Station
- Preston Lodge High School

This report is part of a programme of work commissioned by the Scottish Environment Protection Agency (SEPA) on behalf of the Scotland's Environment Web Project, supported by the European LIFE+ programme

NLC Teaching Website



SEPA Citizen Science



National Teaching Package



Low Cost Air Sensors



- Low cost sensors
- PM₁₀ PM_{2.5} NO_x O₃ Temp & Humidity
- Battery powered with GPRS
- Posted to schools
- Real-time results on website



Structure

1. Updated Primary School Package

2. Secondary School Package

Geography Lessons

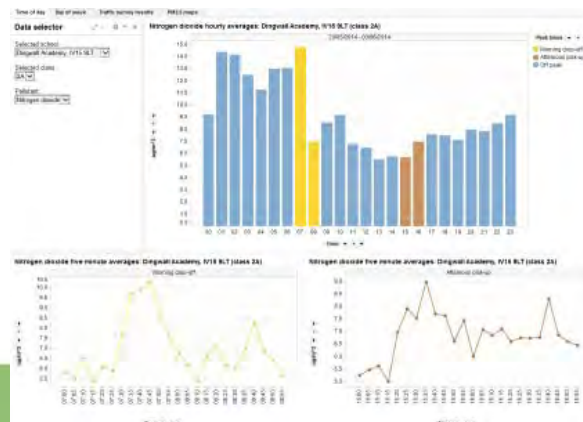
Class and activity based

- Engage the pupils with class-based challenges
- Collect real-time data

Science Lessons

Classroom based

- Teaching the science
- Experiments designed by SSERC

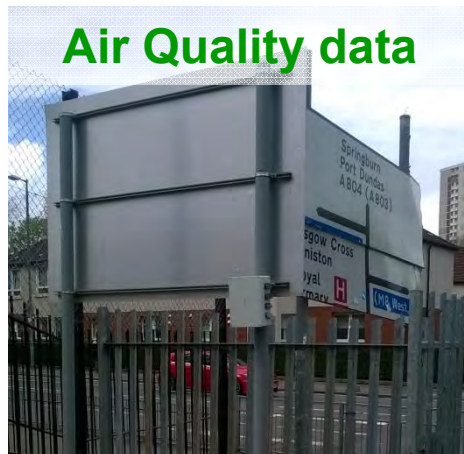


1. Data Collection

2. Results Visualised

3. Behavioural Change

Air Quality data



Traffic survey



Travel survey





**Hutchesons'
Grammar School**



**St Ninian's
Primary School**



**St Roch's
Secondary School**

**Broad range
of schools
used**

Positive Feedback

Very positive
response

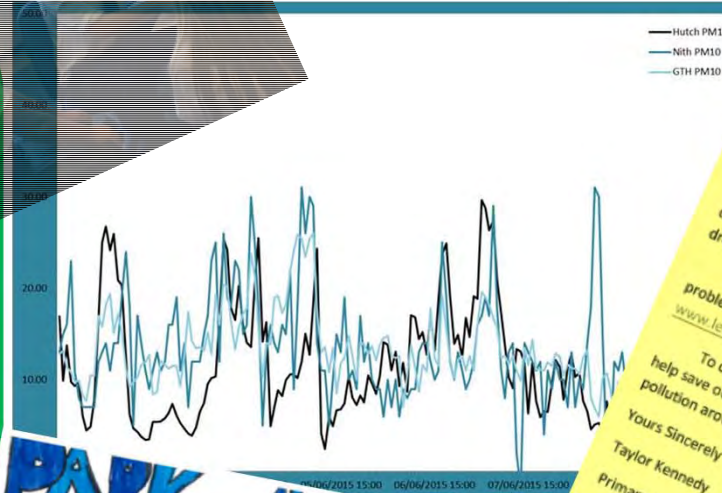
Letter to parents

Investigating
the data

Classroom
discussions

Posters

Presentations



St Ninian's Primary School
Hillhouse
Hamilton
ML3 9TS
18th June 2015

Dear Parent/Carer,

I am writing this letter to persuade you to try not to park in the school car park as it is raising air pollution levels. During our study we have become concerned about the three major pollutants: carbon monoxide, nitrogen dioxide and particulate matter.

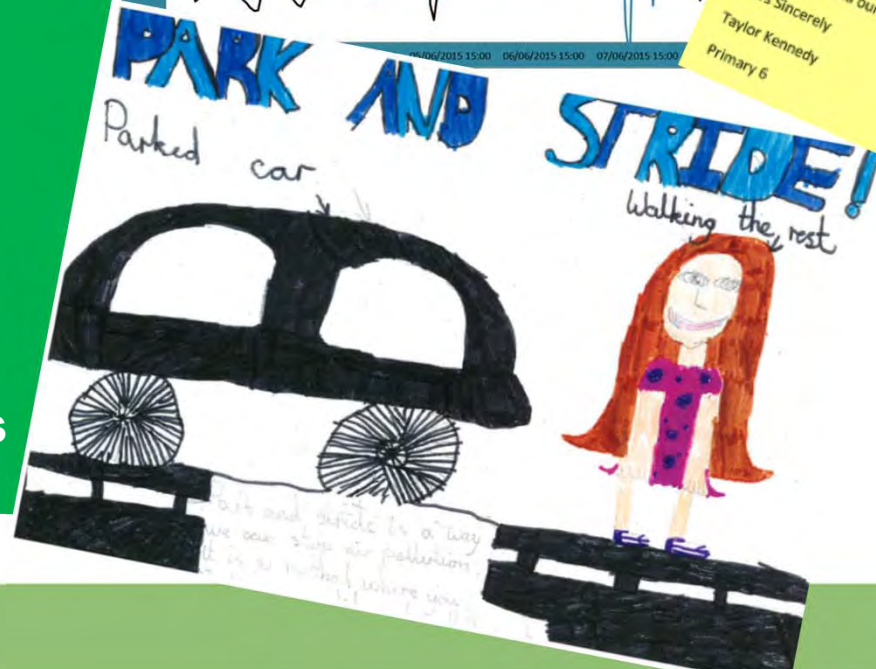
In our school car park we placed a pollution monitor which has given us spike graphs of the levels of the pollution so we can analyse our information. We have found out that between 8.30am - 9am and 2.45pm - 3.15pm are the worst times for pollution.

We have come up with a solution to help prevent pollution but it will only work if we all try hard enough. To prevent this you could cycle, walk or drop off a little way away from the school and walk the rest of the way.

If we can make our solution work, it will also help prevent health problems like asthma. If you want to look further into it go to: www.learnaboutair.com

To conclude please, please take on board what I have said and help save our environment and health and of course reduce the levels of pollution around our playground. Thank you.

Yours Sincerely
Taylor Kennedy
Primary 6



What's next?

Partnership working

Sensor development

National Awards

Science Centre

STEM

Venture Jam



Glasgow Science Centre

Graphics Panel

Introductory information
-incorporate parts of the
AQDB and sections from the
schools packs.
<clarity required on AQDB
information>

Interactive Screen 1

32" Multi-touch screen
Pollution profiles and live air quality information presented
on Google maps. Local sensor points will be highlighted.

<how is this information presented by SEPA? How do we
access the information? Can you send an example? Simple
Would you be able to provide a contact to discuss suitability
of using Spotfire in the exhibit. What level of control do we
have to redesign the front end>>

