

# Citizen Science: Resource guide

**Education Scotland's website** provides practitioners with excellent resources and guidance to help develop learning and teaching within the sciences.

<http://www.educationscotland.gov.uk/sciences>

The following links may be particularly useful in planning for citizen science activities:

**CfE Briefing 15: Sciences for all** – <http://bit.ly/Hvmpj9>

**Sciences experiences and outcomes** – <http://bit.ly/1bCgA0u>

**Sciences principles & practice** – <http://bit.ly/15Q607x>

**Concept development in the sciences** – <http://bit.ly/19yzI9E>

**Assessing progress and achievement in the sciences** – <http://bit.ly/17kLhTM>

**Sciences 3-18 Impact Report** – <http://bit.ly/18TbPbO>



Our **STEM Central** website provides high-quality resources, teaching ideas, videos and interactive activities to develop learning experiences relating to sciences, technologies, engineering and mathematics (STEM).

<http://www.educationscotland.gov.uk/stemcentral/>



Our **STEM Central in MOTION blog** also contains lots of useful news (you can sign up to receive this via email using the subscribe button on the STEM Central page) – <http://bit.ly/1aY16DS>



The Open Laboratories network (**OPAL**) website provides resources and surveys for citizen science projects <http://www.opalexplornature.org/>

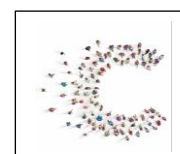
## Resources

Check out the hundreds of high quality science videos available through the award-winning **TWIG on Glow** resource. <http://bit.ly/1gUu99I>



**Galaxy Zoo** project includes activity to classify hundreds of new galaxies. <http://www.galaxyzoo.org/>

**Cell Slider** Cancer Research UK and Zooniverse project gathering information about cancer cells <http://www.cellslider.net>



Learning for Sustainability report: <http://bit.ly/1q9pp3Y>

Sciences Glow 365 site – <http://bit.ly/1BM9gaW>

Facts about the energy industry: <http://bit.ly/1nYbxze>

## Stories from around the world



Brittany Wenger, 18, created computer programs that improve the accuracy of tests for breast cancer and leukaemia <http://bit.ly/1jRVrEY>



New York high school students discover cheaper substitute fish used in sushi restaurants using DNA barcoding <http://bit.ly/1rU1FVz>



Local residents in London using citizen science to record air quality in their area

<http://bit.ly/1uioViy>



Youth group and Ballikinrain School use Citizen Science method for John Muir Award

Projects <http://bit.ly/1wXg4Vw> <http://bit.ly/1s7P4M9>

## Websites



### Outdoor Learning

<http://www.educationscotland.gov.uk/learningteachingandassessment/approaches/outdoorlearning/index.asp>

Resources, background information and videos for practitioners



### Scotland's Environment Web

<http://www.environment.scotland.gov.uk/>

The gateway to information and data about Scotland's environment



### Global Footprint

<http://www.educationscotland.gov.uk/schoolsglobalfootprint/>

Calculate your ecological and carbon footprint

## Useful links

RSPB Birdwatch – <http://bit.ly/1yJzmzg>

STEM Scotland/STEM Ambassadors – <http://www.stemscotland.com/>

A guide to citizen Science for practitioners – <http://bit.ly/1vM3mqp>

Science Centres and Generation Science – <http://bit.ly/18FiyJU>

Mobile apps and project finder - <http://www.environment.scotland.gov.uk/get-involved/>

Website or app for recording ladybird data - <http://www.ladybird-survey.org/recording.aspx>

The Great British Bee Count - <http://greatbritishbeecount.co.uk/>

Plant tracker app for non-native invasive species - <http://planttracker.naturelocator.org/>

Clyde in the classroom - <http://www.clydeintheclassroom.com/>

Information about 'Biological Recording in Scotland' - <http://bit.ly/1uisRkg>

Joint Briefing on Citizen Science from TCV - <http://bit.ly/1A4sk8Z>

The Conservation Volunteers - <http://www.tcv.org.uk/scotland/discover/scotland-counts>

Project Noah website - <http://www.projectnoah.org/>