

Science for Sustainability in the School Agenda

Workshops offer specific links to the following:

Learning across the curriculum

Science for Sustainability workshops provide opportunities for learning about sustainability issues and developing skills (such as communication, numeracy and problem solving) common to most subjects with the Key Stage 2 curriculum.

Every Child Matters

Every Child Matters states that every child, whatever their background or circumstances, should have the support they need to 'make a positive contribution'. All children have a positive contribution to make within school and these workshops can help children identify how.

Social and Emotional Aspects of Learning (SEAL)

Children sometimes find difficulties in understanding and managing their feelings, understanding another point of view and working co-operatively in groups. Our workshops encourage children to build and apply these skills through a range of activities and potential positive outcomes.

The National Framework for Sustainable Schools

The National Framework introduces eight doorways through which schools may choose to initiate or extend sustainable school activity – all of which are relevant the specific areas focused on in our workshops.

Eco-Schools

Measuring and monitoring is an integral part of the Eco-Schools programme. Our workshops allow children to take ownership of any projects or task they are set and provide the evidence needed to understand the schools environmental performance.



educating for a sustainable future...



For details and a price quote please contact
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Science for Sustainability workshops for schools

Primary Schools

Science for Sustainability is offering primary schools the opportunity to take part in a range of educational interactive workshops tailored to Key Stage 2

Workshops focus on four areas:

**Waste Minimisation
Energy & Water Reduction
Renewable Energy Technologies
Climate Change Conundrums**



Workshops are designed to specifically address and contribute to the following:

- Learning across the curriculum
- Every Child Matters
- Social and Emotional Aspects of Learning (SEAL)
- The National Framework for Sustainable Schools
- Eco-Schools status

Welcome to Science for Sustainability

Science for Sustainability is committed to promoting public awareness and understanding of issues surrounding climate change and sustainable living

About Science for Sustainability...

Since the project began in 2006, Science for Sustainability have established links with a large number of primary and secondary schools within the West Midlands and North West regions, reaching an audience of over 5000 pupils aged 8-18.

Based in the School of Physical and Geographical Sciences at Keele University, the project utilises expertise in physical and environmental sciences, clean technology and environmental education to deliver innovative activities to school pupils.

Science for Sustainability workshops...

Science for Sustainability workshops are tailored to meet the requirements of the school, and provide a practical, interesting and fun approach to learning about **contemporary science** and **sustainability** issues and encourage pupils to make positive steps towards a more sustainable school environment. Teaching materials and resources are constantly updated to ensure an accurate and appropriate level of information.

All schools are given an **Introductory Session** to establish the background context of climate change and sustainable living. Schools can then choose an area on which to focus a programme or single session of work.

Workshops are designed to support the **Key Stage 2 curriculum**, incorporating many subject areas, including; Geography, Science, Citizenship, PSHE, ICT, Maths, D&T and Art.



WORKSHOP THEMES

Waste Minimisation

Waste Minimisation workshops use the 3Rs (Reduce, Reuse, Recycle) to highlight ways of addressing waste issues in school.

Activities include:

- **Bin surveys and 3Rs sorting** – investigating how much waste is generated by staff and pupils in the 3Rs categories



- **Waste action plans** – using waste data to establish policies and action plans to encourage sustainable consumption and waste minimisation in school

- **Composting** – establishing composting systems in school and understanding the role of composting in waste minimisation

Energy & Water Reduction

Energy & Water Reduction workshops help children understand where energy comes from and how the school can monitor and reduce the amount of energy and water used. **Activities include:**

- **Special Energy Detectives** – monitoring energy use and energy misuse in school (children investigate different areas where energy may be being wasted)

- **Energy/water action plans** – using data collected by the Energy Detectives to establish an action plan for monitoring and reducing energy and water use to reduce the school's impact on the environment AND save money



Renewable Energy Technologies

Renewable and Clean Energy workshops introduce different renewable energy technologies and their applications as part of a sustainable future. **Activities include:**

- **An introduction to renewable energy** - understanding the role of renewable energy as part of a sustainable future

- **Renewable energy demonstrations** - providing a simple introduction to some applications of renewable energy technologies, (including hydrogen fuel cell cars, solar power and biomass energy)

- **Solar Power Scrapheap Challenge** - pupils design, build and race their very own solar-powered car made from re-used materials. Pupils learn basic principles of solar energy generation and energy storage



Climate Change Conundrums

Climate Change Conundrum workshops help pupils understand some of the wider issues and debates surrounding climate change. **Activities include:**

- **Climate change in the news** – using media to investigate current global and local climate change issues



- **Mindmapping** – helps pupils investigate the many issues raised by solutions to climate change

- **Debates in climate change** – debating introduces ethical questions raised in the attempts to combat climate change

This workshop theme helps pupils develop a more global understanding of the impacts of their personal values, choices and behaviour