



**Friends of
the Earth**

Lesson plan – Energy & climate change

Schemes of work links

Citizenship	Key stage 3	Unit 18:	Developing your school grounds
		Unit 21:	People and the environment
Geography	Key stage 3	Unit 14:	Can the earth cope?
Science	Key stage 3	Unit 7I:	Energy resources
		Unit 9G:	Environmental chemistry
		Unit 9I:	Energy and electricity

Points to note

Teachers will need a good understanding of how a rise in greenhouse gas emissions is causing climate change, where our greenhouse gas emissions come from, and why it is important to be energy efficient. See *Energy and climate change* booklet for information.

Learning objectives

- How to locate resources and combine information from different sources.
- How to use geographical skills to observe and record key features in the school grounds.
- Understanding of sustainable development and its implications for people, places and environments.
- How electricity is generated, with reference to environmental impacts.
- To develop communication skills through discussion.

Lesson structure

Homework before lesson

Children to read *Energy and climate change* booklet and make notes on ways in which we can be energy efficient.

Introduction

Children to share their knowledge about climate change, what causes it, how we can prevent it, and the challenges facing humanity.

Activity (over two lessons: one for gathering information/one for creating prospectus)

In small groups the children can produce a prospectus for their school which highlights ways in which their school is energy efficient.

Children can gather information from:

- Touring the school, noting things such as room usage.
- Interviewing key stakeholders eg headmaster, dinner lady.
- The *Energy and climate change* booklet.

Things to consider include:

- What is the school built out of?
- How is the school heated?
- Does the school provide any of its own electricity?
- How do pupils travel to school?
- How are school dinners provided?
- Are lights/computers left on in empty classrooms?

The prospectus can include photographs and a section on future plans for development of the school.

Alternative suggestion

The prospectus can be created as a web page rather than a hard copy.

Plenary

Children to share their prospectus with the rest of the class.

Discussion as to how we can be more energy efficient in our everyday lives (at school and at home).

Resources

Energy and climate change booklet

Existing School prospectus

Digital camera/Polaroid camera

Useful web addresses:

www.foe.co.uk/campaigns/climate/index.html

www.est.org.uk

Key words/vocabulary

Energy efficiency

Climate change

Sustainable development

CO₂ emissions

Renewable energy

Success criteria

Children will have produced a prospectus for their school which highlights ways in which it is energy efficient.