

School Classroom Activities

Energy Wordsearch

Resources: Wordsearch handout

Activity: Find all the energy sources and devices listed in the wordsearch

Energy Calculations

Resources: Energy Calculations handout, calculator

Activity: Use the information on the handout to work out how much it costs to use different appliances (this uses the information from the diary of kitchen appliances from the energy survey)

Energy in the Classroom

Pupils look around the classroom to find appliances which use energy. Most of these will use electrical energy, some will be battery powered and some will be mains powered.

Pupils to think about all the electrical appliances they can find and draw a table with the following headings; Appliance, Battery or Mains?, What the appliance does (its function), Time in use, Time necessary, How could some of this energy be saved?

Once pupils have filled in the table they can think of the best three examples of where energy could be saved and explain them to the class

Home Energy Survey

Pupils write a letter to parents

Pupils look at the way they use energy in the bedroom, an area of the home for which they may feel responsible

Energy use in the living room. Pupils draw a plan to show energy use in their living rooms

The sources of energy used in the home are tabulated by pupils

Pupils complete a diary for a week on the use of kitchen appliances. If this is not possible, adults in the households could be asked to make an estimate for the previous week

Pupils count the different types of lights in their homes and look for energy efficient lamps and strip lights

With adult help, pupils find out which energy saving measures are already in place in their homes – eg. Loft insulation, cavity wall insulation, draft proofing, double glazing, under floor insulation

Have an Energy Saving Day

Resources: Energy saving day passage hand out

Activity: Pupils to read through the passage and chose which choice of word they want to use in bold

Energy Saving Posters

Pupils to design a poster to encourage others to save energy

Meter Reading

Weekly reading and recording of meters, calculating the consumption for each meter and for the whole school and comparing consumption to the previous week or the same period last year

Press Article

Pupils to write an article for the local press on what the school is doing to save energy

Stick 'em Up day

Pupils to put up descriptive post-it notes around the school wherever they see energy is being wasted

Energy Challenge

Set a reduction target for energy consumption based on meter readings from previous weeks/periods and give an award if the school reduces its energy consumption by the chosen amount.

Websites

Below is a list of websites that can be used to let pupils explore a number of different ways to look at energy saving and there are also a number of energy saving games and activities:

www.eere.energy.gov/kids

Energy Certificate

Resources: Energy Certificate handout

Activity: At the end of the scheme of work or lesson that you have done on energy efficiency you might want to present each of the pupils with a certificate to acknowledge the work they have done