



What can we do to avoid wasting electricity?

KS2 teacher's notes

PSHE/Citizenship

Going Green
Green electricity choices

How to use the worksheet

National Curriculum

This activity supports work in:

PSHE/ CITIZENSHIP

Developing confidence & responsibility:

1c) To face new challenges positively by collecting information, looking for help, making responsible choices, and taking action.

Breadth of opportunities:

5h) Find information and advice.

Also supports work in:

MATHS

Ma4 Handling data, processing, representing & interpreting data:

2b) Interpret tables, lists and charts used in everyday life.

Breadth of study:

1h) Using mathematics in theirwork in other subjects.



To introduce the worksheet, ask the children how they think we sometimes waste electricity and what we can do to avoid waste. Do they think it makes much difference if, for example, we switch off a light or television when it is not needed? (See did you know below.)



Children could make an alternative version of the game that features different electrical appliances or different choices. They could also make a game that features point scoring. For example, they could award or deduct points according to how 'green' (or not) each choice is.



After playing the board game, children could make a note of anything they read that surprised them and find out more about it. A starting point for finding information is their electricity company's website. They could research the energy used by the appliances mentioned in the game.



As a maths activity, the children could calculate how many watts would be wasted in a year by one 100W light bulb being left on all night every night and convert this to kilowatts. They could then work out what this wasted

Did you know?

All electricity wastage, no matter how small, mounts up over the course of time. For instance, if a small electrical appliance, such as a lamp, uses **100 watts per hour**, this adds up to **2,400W** over the course of one day or **2.4kW**.

A television set can use **4 watts per hour** when on standby. If it is left on standby for 12 hours per day, that's **17.52 kilowatts per year**. At **10.5p per kWh** (kilowatt hour) that is **£5.51 per year** for a house with three television sets.

The waste of electricity (and money) mounts up when other devices, such as computers, monitors, printers, mobile phone chargers and so on, are left on standby.

nationalgrid

Electricity
Distribution



For more information see
energysavingtrust.org.uk/energy-at-home





It's time for a game!

KS2 worksheet

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How to play the game

1. This is a game for two players. You will need a dice, two counters and a pen.
2. Take turns to roll the dice and move your counter around the board.
3. Keep score by ticking a box on your scorecard each time you land on a different numbered square and 'make a green choice'.
4. Keep going round the board until one player has completed their scorecard.

START

 You read a leaflet about electricity saving
Extra go!

1  You tell an adult what you've learned about 'A' rated fridges

2  You use a screensaver

 You go out and leave your computer on all day
Miss a go!

 You leave a light on all night
Miss a go!


Player 1 SCORECARD

- 1 Fridge
- 2 Screensaver
- 3 Wind-up torch
- 4 Shower
- 5 Bedroom light
- 6 Solar garden light
- 7 Dishwasher
- 8 Wind turbine


Player 2 SCORECARD

- 1 Fridge
- 2 Screensaver
- 3 Wind-up torch
- 4 Shower
- 5 Bedroom light
- 6 Solar garden light
- 7 Dishwasher
- 8 Wind turbine

3  You get a wind-up torch

8 You ask your headteacher if your school could get a wind turbine 

4 You save hot water by having a shower instead of a bath 

 You join the green committee at school
Extra go!

 You leave a games console on all day
Miss a go!

 You leave your TV on standby
Miss a go!

7 You tell your friend's mum about low energy dishwashers 

 You leave the fridge door open
Miss a go!

6 You buy someone a present of a solar powered garden light 

You replace an old 100w bulb in your bedroom with a low energy one 
5



With your partner or in a group, make a leaflet using your own 'green' electricity ideas.