



Research 1

Look at the different home equipment here.
None of these appliances can work without electricity to power or charge them.

Rank the items in order of the most important to the least important in your home.



Challenge: How did you choose the two most important items?



Research 2

Draw three different circuits using only these equipment:

A bulb

A cell

A switch

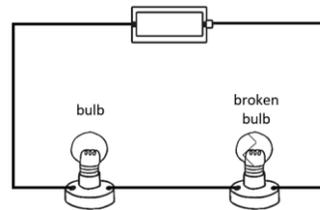
A cell

A buzzer

Wires

Challenge:

Look at the following circuit.
Does it work with a broken bulb? Explain why.



3D Model and Research

Create your own simple series electrical circuit identifying its basic parts, including cells, wires, bulbs, switches and buzzers.

Extended Writing – Persuasive Text

It is impossible to live without electricity
Agree or disagree?

Consider how people use to live a hundred years ago.

Think about your favourite ways to have fun.

Think about important jobs around the home that do not require electricity.

Electricity

Year 4 Science Takeaway

Homework Menu



National Curriculum Expectations

- identify common appliances that run on electricity
- construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
- recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- recognise some common conductors and insulators, and associate metals with being good conductors.

Specific Vocabulary

Electricity, mains, bulb, conductor, insulator, switch, motor, closed, pylons, cell, battery.

Takeaway homework guidelines

- **It is up to you to chose which task you would like to complete.**
- **Chose a task that is appropriate but remember to always challenge yourself.**