



Year 4 Science - Electricity (Physics)

Knowledge and skills
Empower
You to
Succeed

Cronton CE Primary School

Keys to
Success

Summer 1



Knowledge

Some appliances use batteries and some use mains electricity. Batteries come in different sizes.



toaster



lamp



kettle



laptop



X-box



phone



torch



headlights



television

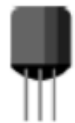
Circuit Components



BULB



WIRES



BUZZER



BATTERY/CELL



MOTOR



SWITCH

An electrical conductor lets electricity pass through. They are often metals but it also includes water.

An electrical insulator does not let electricity pass through.

Diagrams

Battery

Switch Light

These are complete circuits - they have a battery (cell) and a component (bulb). The wires are placed in the right places of the battery for the circuit to work.

These circuits will not work as they are incomplete.



Vocabulary

Electrical appliance - a device or machine that does a job and needs electricity to work.

Battery/cell - small device that changes chemical energy into electrical energy.

Switch - control for an electrical device or circuit to turn it on or off.

Electricity - form of energy that can be carried by wires and is used for lighting and heating and to provide power for devices.

Mains electricity - big circuit so when you plug something in at home, you complete the circuit from your house to the power station and back again.

Current - flow of electricity through a circuit.