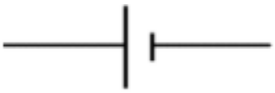
| River View Primary School | | |
|---|---|---|
| **Topic: Electricity** | **Year: 6** | **Strand: Physics** |

| What should I already know? |
|---|
| • Some appliances that run on electricity.<br>• That a circuit is a complete loop containing a battery, wires and an appliance.<br>• Materials that allow electricity to pass through them are called conductors.<br>• Materials that will not allow electricity to pass through them are called insulators. |

**What will I know by the end of the unit?**

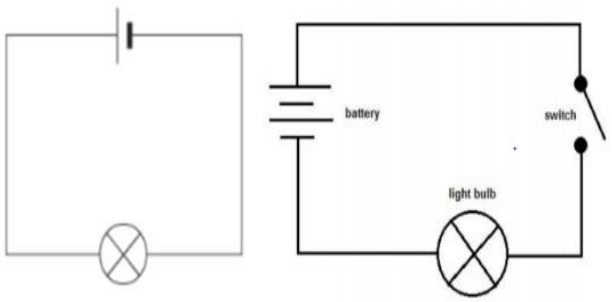
| symbol | component |
|---|---|
|  | bulb |
|  | buzzer |
|  | battery |
|   | motor |
|  | switch (open) |
|  | switch (closed) |
|  | wire |

| | |
|---|---|
| Why might some circuits work better than others? | • The higher the voltage of the cells, the greater the output of the device. E.g. the brighter the bulb or the higher the volume of the buzzer.<br>• Adding more batteries (cells) to a circuit will increase the voltage and make a bulb brighter.<br>• When a switch is 'open' (off), the circuit is broken and electricity cannot flow. |

| Vocabulary | |
|---|---|
| appliances | something in your home that does a job, such as cleaning or cooking |
| battery | two or more connected cells |
| bulb | gives out light when electricity passes through it |
| buzzer | makes a buzzing sound |
| cell | synonym for battery |
| circuit | when complete, electricity can flow around it |
| component | the parts involved in a circuit |
| conductor | something electricity can travel through |
| electricity | energy that can be carried through wires |
| energy | power that makes machines work |
| insulator | a non-conductor of electricity |
| motor | something that moves when electricity passes through it |
| output | the amount of something produced |
| switch | used to turn a device on or off |
| voltage | the force of an electric current |
| wires | a long, thin piece of metal used to carry electricity |

## Diagrams

- Examples of simple circuits using symbols for a battery, bulb and and open switch.




## Data Handling

- Record and display results using an appropriate graph after conducting an experiment correlating the voltage of cells with the output of a device.