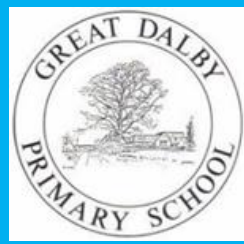


# Science Knowledge Organiser: Electricity



## Key Vocabulary:

|                          |   |
|--------------------------|---|
| <b>Electricity</b>       | The flow of an electric current through a material, e.g. from a power source through wires to an appliance.       |
| <b>Appliances</b>        | A piece of equipment or a device designed to perform a particular job, such as a washing machine or mobile phone. |
| <b>Battery</b>           | A device that stores electrical energy as a chemical. Two or more cells joined together form a battery.           |
| <b>Circuit</b>           | A pathway that electricity can flow around. It is based around wires and a power supply.                          |
| <b>Mains electricity</b> | Electricity supplied through wires to a building.   |
| <b>Conductor</b>         | A conductor of electricity is a material that will allow electricity to flow through it.                          |
| <b>Insulator</b>         | Materials that are electrical insulators do not allow electricity to flow through them.                           |

## Components Vocabulary:

|               |  |
|---------------|--|
| <b>Cell</b>   | The scientific name for a battery                  |
| <b>Bulb</b>   | Lights up in a complete circuit.                   |
| <b>Buzzer</b> | Makes a noise in a complete circuit.               |
| <b>Wires</b>  | Connect the different parts in a circuit together. |
| <b>Motor</b>  | Produces movement in a complete circuit            |
| <b>Switch</b> | Use to turn components in a circuit on or off.     |

## Examples of electrical conductors:

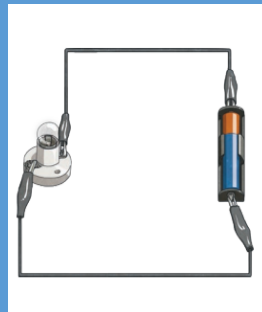


## Examples of electrical insulators:



## Series Circuit:

A circuit where the components are connected in a loop. Electricity flows through each component in a single pathway.



## Incomplete Circuit:

There is a break in the circuit that prevents the electricity from flowing. The components will not work.



## Complete Circuit:

Electricity can flow. The components will work.