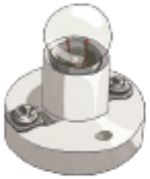
Rolvenden Primary School – Knowledge Organiser

Electricity

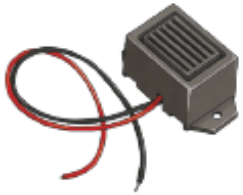
Components (Parts) Vocabulary

cell: Normally, we would call this a **battery** but scientifically, this is a cell. Two or more cells joined together form a **battery**.

bulb: Lights up in a complete **circuit**.



buzzer: Makes a noise in a complete **circuit**.



wires: Used to connect the different components in the **circuit** together.

motor: Produces movement in a complete **circuit**.

switch: Used to turn other components in the **circuit** on or off.

Materials can be tested in a **circuit** to see if they are **electrical conductors** or **electrical insulators**.

10p = metal = **electrical conductors**

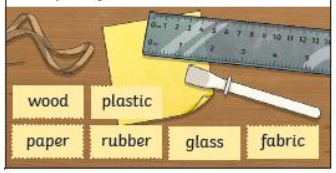
test **circuit**

ruler = plastic = **electrical insulators**

Key Knowledge

Examples of **Electrical Conductors**

Examples of **Electrical Insulators**



A complete circuit is where all the components work and the electricity can flow.

An incomplete circuit is where there is a break and the electricity isn't able to flow.

Vocabulary	
Key Words	**Definitions**
electricity	The flow of electric current through a material, e.g. from a power source through wires to an appliance.
appliances	A piece of equipment or a device designed to perform a particular job, such as a washing machine or a mobile phone.
battery	A device that stores electrical energy as a chemical. Two or more cells joined together to form a battery.
circuit	A pathway that electricity can flow around. It is based around wires and a power supply. Example of components you can add in to a circuit are bulbs, switches, buzzers and motors.
mains electricity	Electricity supplied through wires to a building
electrical conductor	A conductor of electricity is a material that will allow electricity to flow through it.
electrical insulator	Materials that are electrical insulators do not allow electricity to flow through them