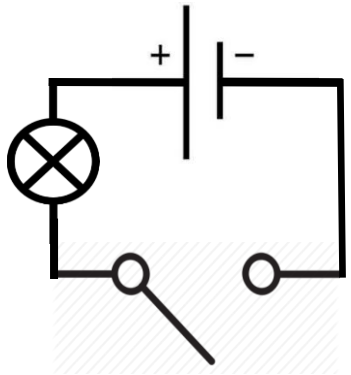
Science – Electricity – Year 4

Vocabulary Top Ten:

appliance	a device or piece of equipment
circuit	a path of an electric current
electrical components	Parts that can be connected together to make a circuit
conductor	a material that electricity can pass through
current	the flow of electricity through something
electricity	is an energy that can be used to power electrical items
hazard	a danger or risk
insulator	a material that electricity cannot pass through
symbol	a shape used as a sign to stand for something
voltage	an electrical force that makes the electricity move through a wire

A Simple Circuit



Electrical Appliances

Some appliances use batteries and some use mains electricity.



Key Facts:

Common **electrical hazards** include:

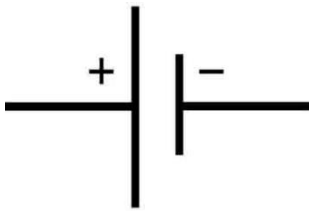
- overloading a plug extension socket
- exposed wires
- damaged wall sockets,
- wires left as a trip hazard
- electrical appliances near water



A **complete circuit** is a loop that allows electrical current to flow through wires. A circuit contains a battery (cell), wires and an appliance that requires electricity to work (such as a bulb, motor or buzzer). The electrical current flows through the wires from the battery (cell) to the bulb, motor or buzzer.
A switch can break or reconnect a circuit.

conductors	insulators
copper iron steel gold	paper plastic rubber wood

battery



bulb



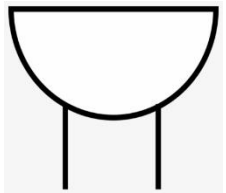
wire



motor



buzzer



open switch



closed switch

