



Key Vocabulary

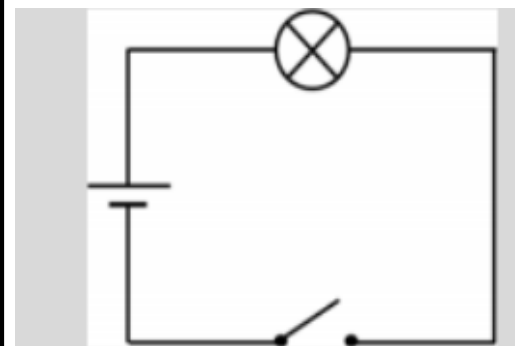
Word	Meaning
Electricity	A form of energy resulting from the existence of charged particles
Appliances	A device or piece of equipment designed to perform a specific task
Battery	A container consisting of one or more cells, in which chemical energy is converted into electricity and used as a source of power
Circuit	Path for transmitting electric current
Mains Electricity	Electricity supplied through wires to a building
Conductor	A material or device that conducts or transmits heat or electricity.
Insulator	A substance or device which does not readily conduct electricity
Current	A flow of electricity which results from the ordered directional movement of electrically charged particles
Physics	The branch of science concerned with the nature and properties of matter and energy.
Voltage	Voltage is a measure of the difference in electrical energy between two parts of a circuit. Voltage is measured in volts.
Hazards	A danger or risk
Particles	A minute portion of matter

Electrical Hazards

1. Overloading a plug extension socket.
2. Exposed wires.
3. Damaged wall sockets.
4. Wires left along the carpet for people to trip over.
5. Placing metal into electrical appliances or open sockets.
6. Electrical appliances and wires near water.

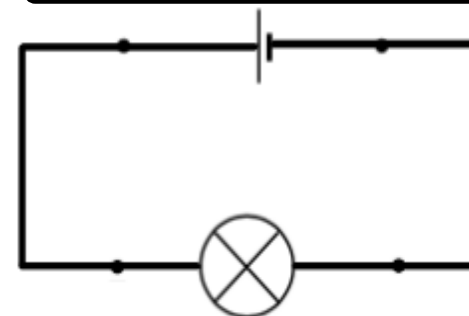
NOTE: WATER IS AN EXCELLENT ELECTRICAL CONDUCTOR SO IT CAN BE VERY DANGEROUS TO HAVE ELECTRICAL DEVICES NEAR WATER

An Open Circuit



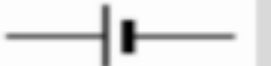
The light bulb will not light in this circuit until the switch is closed.

A Closed Circuit



The light bulb will light in this circuit because the switch is closed.

Electrical Circuit Symbols

	lamp (indicator)
	lamp (lighting)
	wire
	motor
	buzzer
	open switch
	closed switch
	cell
	battery

Electrical Conductors



Electrical Insulators



Extending your learning:

1. Monitor how much electricity you use at home and try to reduce it.
2. Visit the Science Museum.
3. Play the game 'Operation'.
4. Research who first discovered electricity.