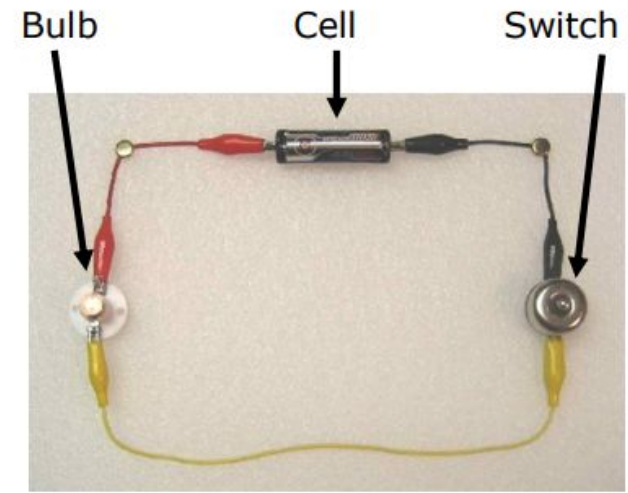
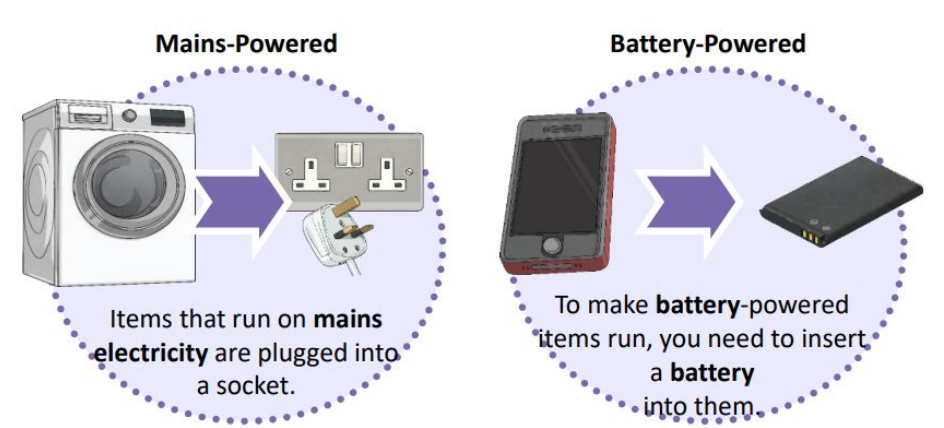




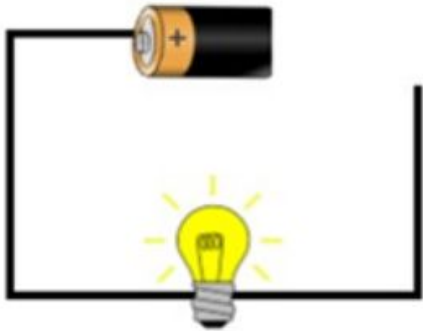
Year 4 Autumn: How and why does electricity work or not?

Key Vocabulary	
electricity	A form of energy used for lighting, heating, making sound and making machines work.
electrical appliance	A machine or device that runs on electricity
mains	The electricity supplied to households from power stations.
electrical circuit	This consists of a cell or battery connected to a component using wires.
cell and battery	A cell is a single unit and a battery is a collection of cells.
electrical component	A part that combines with others to form a circuit. E.g. bulb, motor, buzzer
switch	Can be added to a circuit to turn a component on or off. It allows the electricity to flow or it stops it.
conductor	Material that allows electricity to pass through.
insulator	Material that does not allow electricity to pass through it.

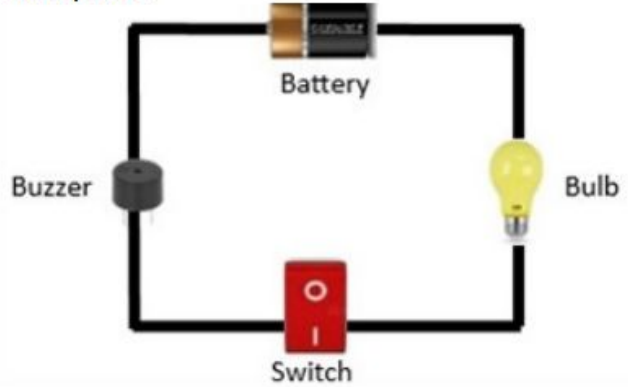


The switch opens and closes the circuit. The bulb lights because the switch is

Insulators and Conductors			
Insulators		Conductors	
Wood	Fabric	Gold	Copper
Glass	Plastic	Aluminium	Silver



This circuit will not work as it is not complete



This circuit is complete so the buzzer will sound and the bulb will light.

Electricity can be dangerous if not used properly. It can cause shocks, burns and even death. There are electrical dangers both in the home and outdoors.