Key Vocabulary	
electricity	A form of energy used for lighting,
	heating, making sound and making
	machines work.
electrical	A machine or device that runs on
appliance	electricity.
mains	The electricity supplied to
	households from power stations.
electrical	This consists of a cell or battery
circuit	connected to a component using
	wires. It needs to be a complete
	circuit to work.
cell and	A cell is a single unit and a battery
battery	is a collection of cells.
electrical	A part that combines with others
component	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.

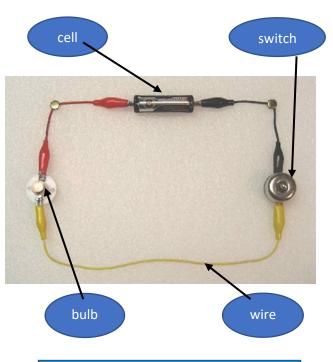
Appliances that run on electricity



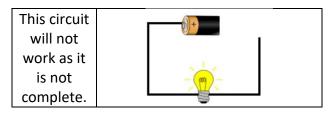
Electricity – Year 4

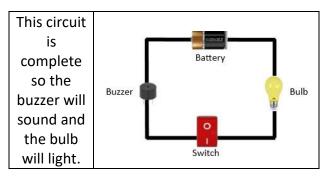
Significant scientist		
Thomas Edison	Thomas Edison was an	
(1847-1931)	American inventor. He is	
	sometimes described as	
1361	America's greatest	
4	inventor. He invented the	
	first practical	
Sept 5	incandescent light bulb.	

Electrical circuit with a bulb



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





Conductors and insulators

Conductors

Some materials let electricity pass through them easily. These are known as electrical conductors. Many metals are good electrical conductors, such as iron, copper and steel.



Insulators

Some materials do not allow electricity to pass through them. They are known as insulators. Plastic, wood, rubber and glass are good electrical insulators.

