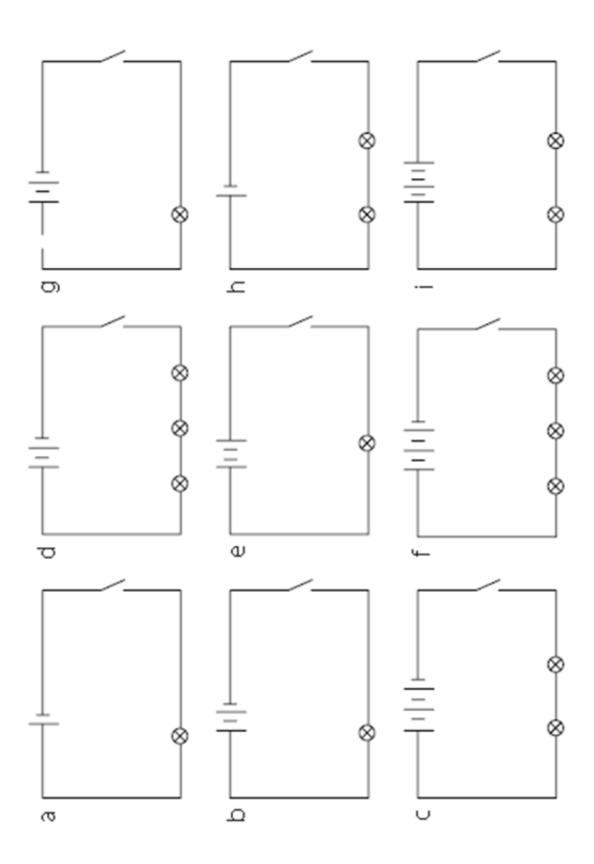


Match the symbol to the correct name and use.

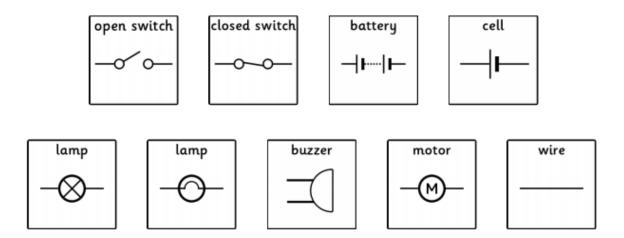
-	→ motor Two cells in series.	2 Transfers electrical energy to sound energy.	Lattery to movement.	buzzer Completes the circuit.	Open switch Transfers electrical energy to light energy.	Brooks the circuit
+	\Diamond	거	<u>+</u>	ļ	\(\bar{\bar{\bar{\bar{\bar{\bar{\bar{	ľ

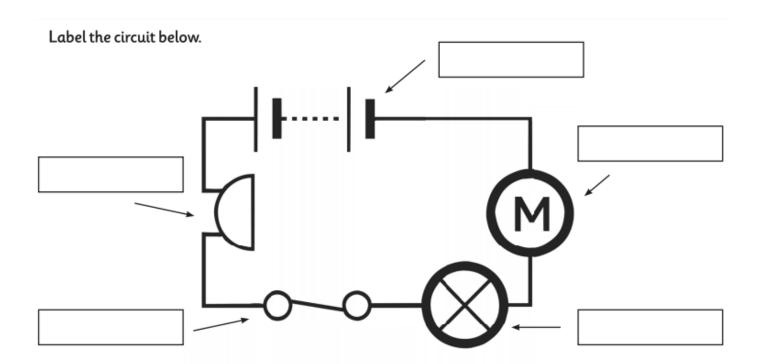
In these diagrams state whether the bulbs in the circuits would be brighter, dimmer, normal brightness or off when the switch is closed.



Electrical Circuits

Electricity flows in a circuit from the negative pole of a battery to its positive pole. The flow of electricity creates an electric current. There is a symbol to represent each component in an electrical circuit.





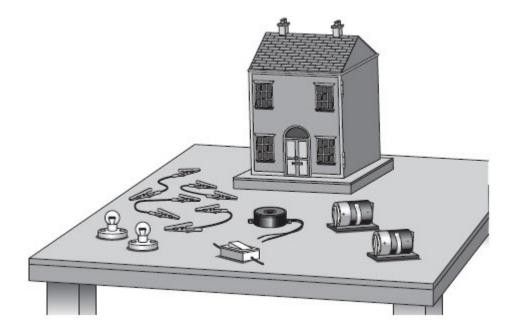
Complete the sentences.

The electric current leaves the _____ and passes through the _____. It then travels through the _____ and finally through the _____ before returning to the battery.

Q1.

Model house

(a) A group of children are making a circuit for a door bell and lights in a model house.



The circuit symbols for the parts used in the circuit are shown below.

Write the name of each part next to its circuit symbol. One is done for you.

Circuit symbol	Name of part
/	
	buzzer
$-\otimes$	

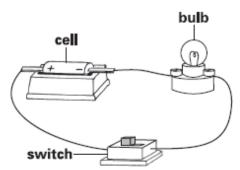
2 marks

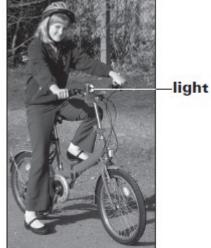
Q2.

Road safety

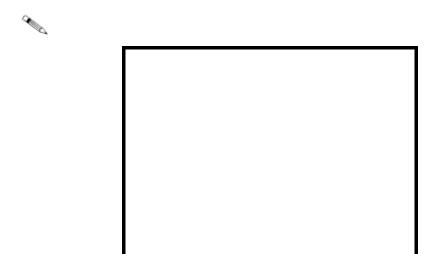
(a) Julia has a bike with a light.

The picture below shows the circuit in Julia's light.





(i) Draw a circuit diagram to show the circuit in Julia's light. Use symbols in your drawing.



2 marks

(ii) What should Julia add to her circuit to make the light brighter?

A			
100	Julia should add	 	

1 mark

Q3.

Electricity

Tick **ONE** box for each circuit to show whether the bulb **will** or **will not** light.

	will light	will not light	1 mark
	will light	will not light	
	will light	will not light	1 mark
	will light	will not light	1 mark

1 mark

Electricity

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voltagevoltmeterwirecellmotorlampbuzzerammeterinsulatorcircuitbatteryconductor

Challenge!

Rearrange the letters to work out what word is an anagram of:

Tricycle Tie