

Science - Test Your Skills

Year 4 Electricity



1. Draw **four** lines to match the electrical components to their symbols.

Electrical components

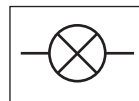
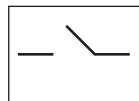
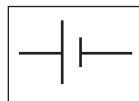
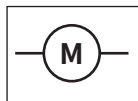
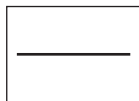
bulb

wire

cell

switch

Symbol



1 mark

2. Here is a circuit with **wires**, **battery** and a **bulb**. The sentences below say what each part of the circuit is for.

Write the **name** of the right component in the gap.

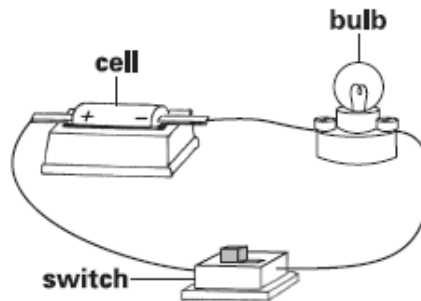
The..... gives

the power to light the bulb.

The links

different parts of the circuit together.

The..... lights up.



1 mark

3. Does each object conduct electricity? Write **yes** or **no** in each row of the table.

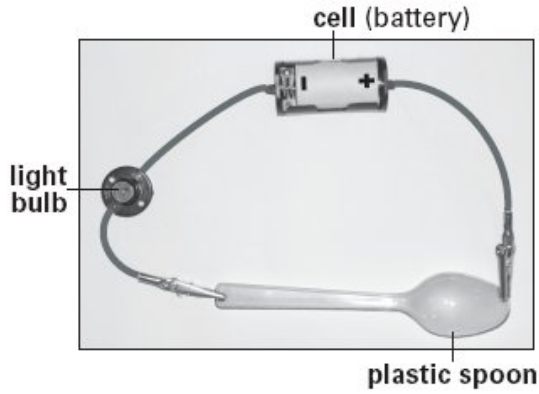
Object	Does the object conduct electricity?
wooden ruler	
steel scissors	
sheet of paper	
rubber	
brass pin	

2 marks

4. Shana builds the three circuits below. All the equipment works. The bulbs in the circuits are **not** lit up.

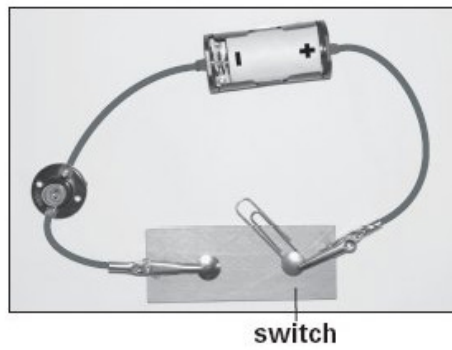
Complete each sentence to explain why the bulb has not lit in each circuit.

2 marks



A) The bulb has **not** lit because the plastic spoon

.....



B) The bulb has **not** lit because the plastic spoon.....

.....

5. **Why** do electrical things have switches? **Tick two** reasons.

- They look fancy.
- You can save energy by turning things off.
- They make a great clicking noise when you turn them on.
- They ensure your safety around different electrical appliances.

2 marks

7. Jack dries his hair with an electric hairdryer. He does not use the hairdryer in the bathroom because it might get wet.

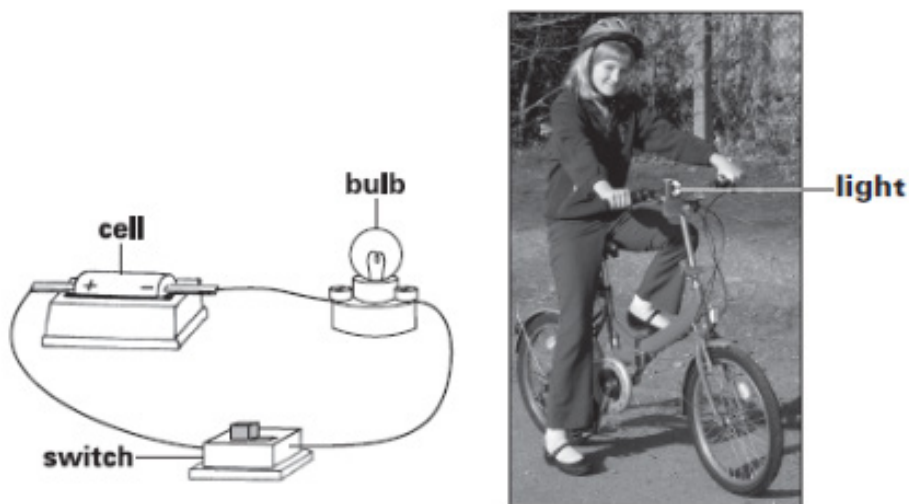
Why is it dangerous to use an electric hairdryer near water?

1 mark

7. Julia has a bike with a light.

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

2 marks



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

/10

Total