

Q6.

Electricity

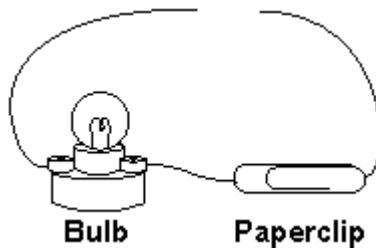
- (a) Peter is making a circuit with a bulb. He wants to use the circuit to find out if a metal paperclip allows electricity to pass through.

What name is given to the property of metals that allows electricity to pass through?

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1 mark

- (b) This is Peter's circuit:



Name the **ONE** piece of equipment Peter **must** add to his circuit to see if the paperclip allows electricity to pass through.

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1 mark

- (c) Peter can tell from his circuit that the paperclip allows electricity to pass through.

What happens in Peter's circuit to show him that the paperclip allows electricity to pass through?

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1 mark

- (d) Peter tests four more objects in his circuit.



Metal coin

Iron nail

Plastic ruler

Steel spoon

Only **one** object does **not** allow electricity to pass through.

He puts his results in a table.

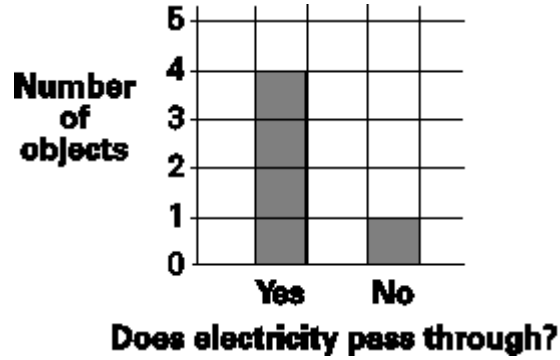
Write **yes** or **no** in each box of the table to show if electricity passes through each object.

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Name of object	Paper-clip	Metal coin	Iron nail	Plastic ruler	Steel spoon
Does electricity pass through?	yes				

2 marks

(e) Peter draws a bar chart to show his results.



Peter says 'The table is better than the bar chart to show my results. It gives me extra information.'
Look carefully at the table and bar chart.

What extra information does the table give?

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1 mark

