Date

LO: To investigate which materials are insulators and which are conductors

What are electrical conductors?
Which materials make good electrical conductors?
Which material is used in plugs and why?
What does a lightbulb have inside it?
What are electrical insulators?
Give 2 examples of electrical insulators.
What does the plastic on a crocodile clip prevent?

Conductors

Some materials let electricity pass through them easily. These materials are known as electrical conductors.

Many metals, such as copper, iron and steel, are good electrical conductors. That is why the parts of electrical objects that need to let electricity pass through are always made of metal.

Metal is used in plugs to allow electricity to transfer from the wall socket, through the plug, and into a device such as a radio or TV.

In a light bulb, the metal filament conducts electricity and causes the light bulb to light up.

Insulators

Some materials do not allow electricity to pass through them. These materials are known as electrical insulators.

Plastic, wood, glass and rubber are good electrical insulators. That is why they are used to cover materials that carry electricity.

The plastic covering that surrounds wires is an electrical insulator. It stops you from getting an electrical shock.

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What are electrical insulators?
Give 2 examples of electrical insulators.
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Write your answers on post-it-notes.

Put them in chronological order according to the text.

Look at the different materials and make predictions about whether they are conductors or insulators.

Complete your table with your predictions.

Test each material and complete your results table.

What did you notice?

(Take photos for books)

I do

Material	Prediction		Result	
	Conductor	Insulator	Conductor	Insulator

We do

Complete your predictions

Material	Prediction		Result	
	Conductor	Insulator	Conductor	Insulator

You do

Test your predictions and record your results

Material	Prediction		Result	
	Conductor	Insulator	Conductor	Insulator

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