

LO: To recognise some common electrical conductors and insulators

I can recognise some common conductors.

I can recognise some common insulators.

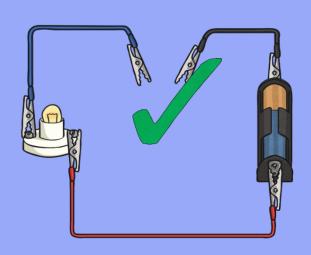
I know that metal is a good conductor

Odd one out

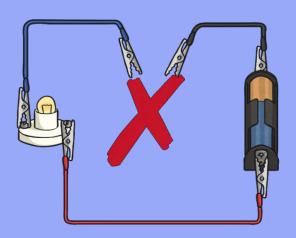




Electrical charge can flow through some materials, but not through others.



Materials that **do** allow electrical charge to flow freely through them are called **electrical conductors**. They conduct electricity.



Materials that **do not** allow electrical charge to flow freely through them are called **electrical insulators**.

Before you start to test materials to identify if they are conductors or insulators, first create a complete circuit using the following parts:





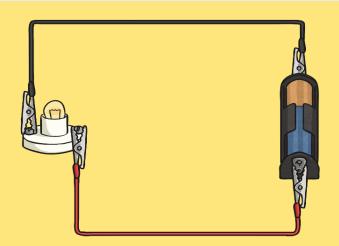




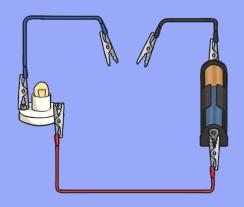


The circuit should look like the one on the right when complete.

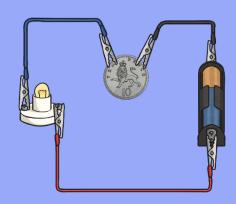
N.B. check that it works and the bulb lights. If the bulb is dim in this circuit, change either the bulb or the battery.



Connect it to your circuit so it now looks like this:

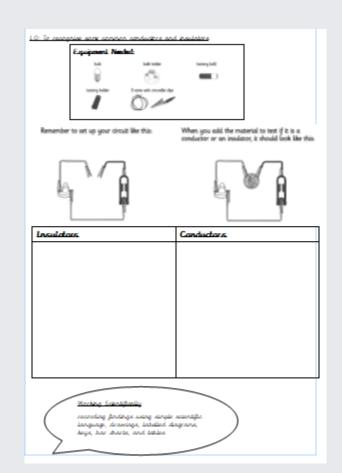


Choose a material and add it to the circuit so it looks like this:

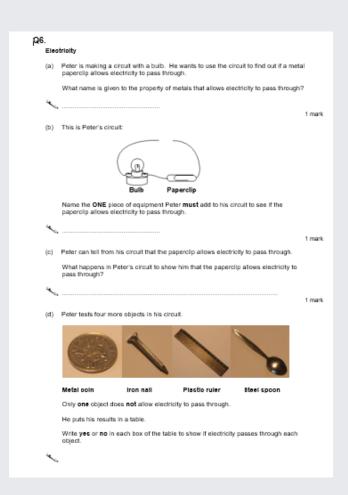


If the **bulb lights**, then the material is an **electrical conductor**. If the **bulb remains unlit**, the material is an **electrical insulator**.

N.B. Check that all parts of the circuit are connected properly.



Next Step: Testbase Question



Name of object	Paper-clip	Metal coin	iron nai	Plastic ruler	Steel spoon
Does electricity pass through?	yes				
Peter draws a bar chart	o show his results	i.			2 mar
ŧ		_			
Number of 3					
objects					
Ċ					
Does	electricity pass				
Peter says 'The table is it gives me extra informations' Look carefully at the tab	tion.'	chart to sh	ow my resi	ults.	
What extra information of		7			
	Ů				
					1 ma