

Year 4 Science

Electricity- Tuesday



Re-cap

What did you learn in science yesterday?

Year 4 Science

Electricity- Tuesday



This week, we will be learning to understand and identify electrical conductors and insulators.

What do these two terms mean?

Insulator=

Conductor=

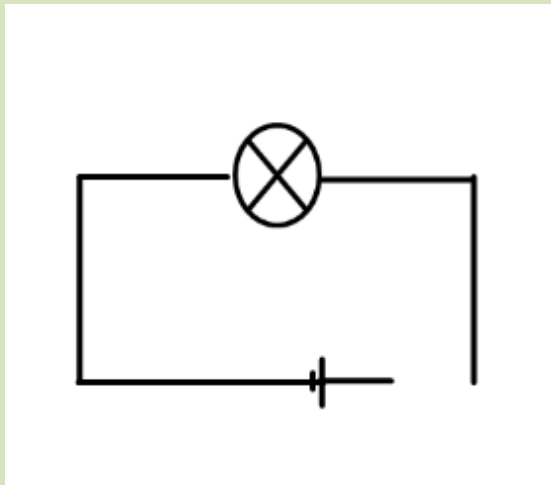
Year 4 Science

Electricity- Tuesday



Insulator= Any material that does not allow electric current to pass through it

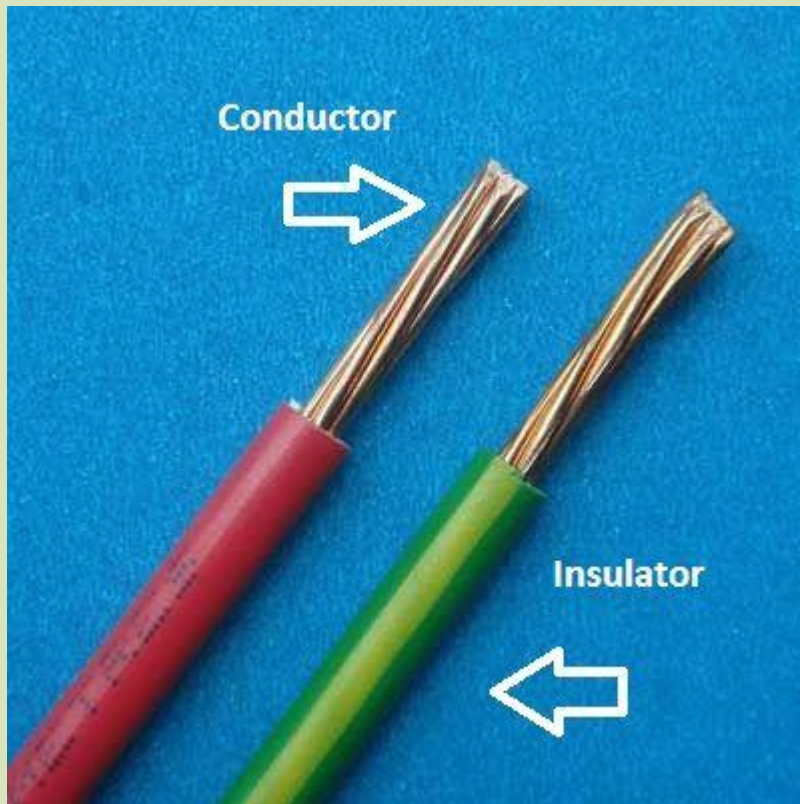
Conductor= Any material that does allow electric current to pass through it (These have to be metal)



Will we need to add a conductor or an insulator to complete our circuit?

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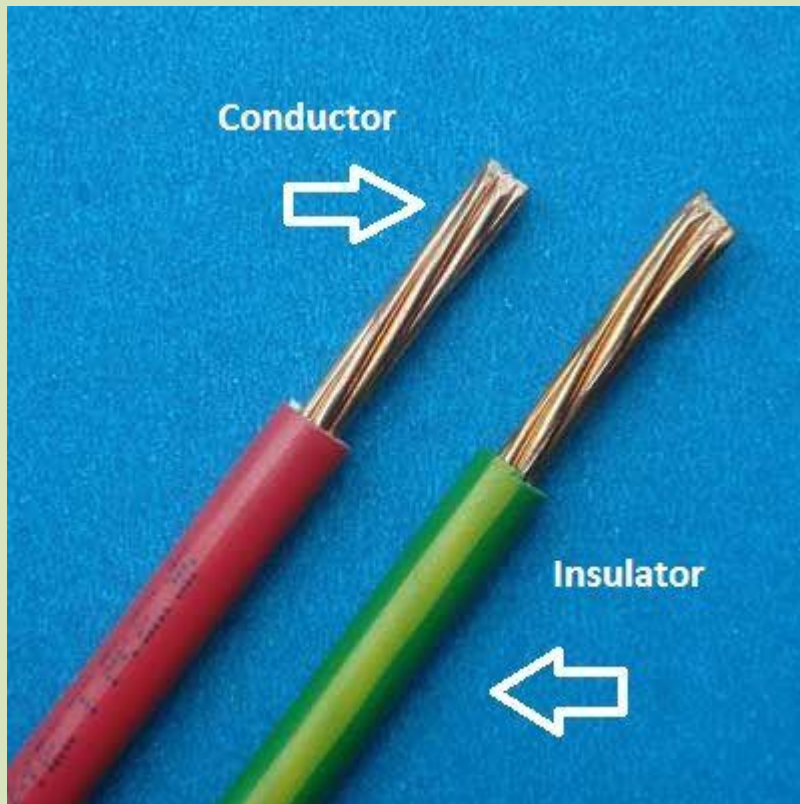
Electricity- Tuesday



In a wire, what is the job of the conductor and what is the job of the insulator?

Year 4 Science

Electricity- Tuesday



The conductor allows electricity to travel through the wire, whilst the insulator keeps the electricity contained and safe from causing any danger.

Year 4 Science

Electricity- Tuesday



When building electrical devices, it's important to make sure they have conductors where needed to allow the electricity to travel help the device to work, but also to use insulators to ensure that the electricity is exposed and could electrocute anybody.

Year 4 Science

Electricity- Tuesday



Today's task

Draw the following graph into your books.

Insulator	Conductor

Year 4 Science

Electricity- Tuesday



Today's task

Decide whether the following objects are insulators or conductors and add them to your graph.

Nail, pencil, socks, scissors, paper, rocks, knife and fork, a key, water, glass jar, apple, a ring, a balloon, a gold coin, a wooden spoon, a seashell.

Year 4 Science

Electricity- Tuesday



Today's task

Now, can you hunt around your home and add more items to your graph.

Finally, answer the following questions in your book underneath your graph.

- What kind of materials conduct electricity?
- What kind of materials insulate electricity?
- Why are insulators important?