

## **Objective**/s

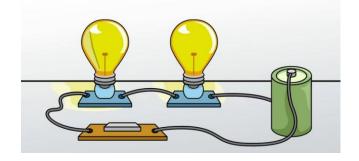
- Differentiate between electrical conductors and insulators.
- Test materials in the laboratory to decide whether they are electrical conductors or insulators.

## **Materials required:**

Different Objects:					
Plastic	copper	rubber	iron		
Glass	wood	steel	aluminum		
A bulb		Cells			
Wires		Switch			
A bulb holder					

## **Procedure:**

- 1. Construct a simple electric circuit.
- 2. Add each object to the circuit.
- 3. Observe what happens, record your observation in the table.





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## Write your prediction before doing the test.

Material	Prediction	Observation	Electrical Conductor/
	Will the circuit work?	Does the circuit work?	Insulator
Copper		Yes	Electrical conductor
Plastic		No	Electrical insulator
Rubber		No	Electrical insulator
Iron		Yes	Electrical conductor
Steel		Yes	Electrical conductor
Glass		No	Electrical insulator
Wood		No	Electrical insulator
Aluminum		Yes	Electrical conductor

**Conclusion:** 

**Electrical conductors are:** 

Materials that allow electricity to pass through.

Examples: All metals like steel, iron, copper.

Electrical insulators are:

Materials that do not allow electricity to pass through.

Examples: Wood, plastic, rubber.