



Name: _____

Date: _____

Experimenter: _____

Testing Which Materials Conduct Electricity



QUESTION

Which materials conduct electricity?



HYPOTHESIS

I think _____

because _____

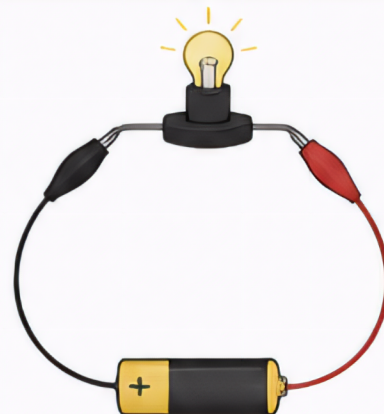


MATERIALS

- 1.5V battery (AA)
- Small light bulb in a holder (with wires)
- 2 alligator clip wires
- Materials to test (see list below)
- Tape
- Chart (for recording results)

Materials to Test (examples):

paper clip, coin, aluminum foil, plastic spoon, wooden stick, rubber eraser, copper wire, glass, cardboard, etc.



PROCEDURE

1. Build a simple circuit by connecting the battery to the light bulb using the alligator clip wires.
2. The bulb should light up.
3. Turn off (disconnect) one side of the circuit.
4. Clip one end of the test material to one alligator clip and the other end to the free alligator clip. This puts the test material in the circuit.
5. Watch the light bulb.
6. If the bulb lights up, the material conducts electricity.
If the bulb does not light up, the material does not conduct electricity.
7. Record your results in the chart.
8. Test all the materials.



RESULTS

	Material	Prediction (Will it conduct?)	Result (Yes / No)	Notes
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				



CONCLUSION

What did you find out?

Which materials conducted electricity?

Which materials did not conduct electricity?



SAFETY TIP: Do not use wall outlets. Use only a battery in this experiment. Keep the circuit dry.