Conductivity Test Experiment

Science Year 2 Worksheet

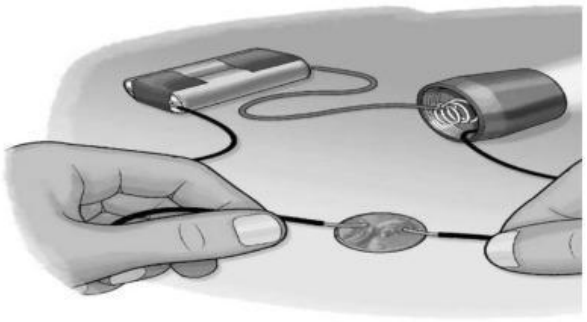
School Name: _____ Student's Name: _____

Learning Objective

Students will be able to identify and classify materials that conduct electricity.

Materials Needed

- A battery
- Connecting wires
- A small light bulb
- Paper clip
- Rubber band
- Plastic spoon
- Aluminium foil
- Coin
- Eraser



Procedure

1. Connect one wire to the positive end of the battery and another wire to the negative end.
2. Attach the free ends of the wires to a small bulb so that it can light up when the circuit is complete.
3. Test each material by placing it between the two open ends of the wire.
4. Observe whether the bulb lights up or not.
5. Record your observations in the table below.

Observation Table

Material Tested	Does the Bulb Light Up? (Yes/No)	Conductor or Insulator
Paper clip		
Rubber band		
Plastic spoon		
Aluminium foil		
Coin		
Eraser		

Subjective Questions

1. What do we mean by a conductor?

_____

2. Which materials made the bulb light up?

_____

3. Why do you think some materials did not conduct electricity?

_____

4. How can we use conductors in our daily life? (HOTS)

_____

5. What safety rules should we follow when testing electricity?

_____

Answer Key (For Teachers)

1. A conductor is a material that allows electricity to pass through it.

2. The materials that made the bulb light up are paper clip, aluminium foil, and coin.

3. Some materials, such as rubber and plastic, do not allow electricity to pass through them because they are insulators.

4. Conductors are used in wires, plugs, and electrical circuits to allow electricity to flow.

5. We should never touch wires with wet hands and should use low voltage during experiments.