Name: Date: Score: / 8

Conductors and Insulators: Learn and Practice

Which materials let electricity flow?

Read each question. Circle the best answer.

💡 Conductors and Insulators

- A conductor lets electricity or heat move through it easily.
- An insulator slows or blocks electricity or heat.
- Most metals are good conductors.
- copper wire inside, plastic coat outside: conductor wrapped in an insulator

1 🥄 A metal spoon in hot soup gets hot. Why?

A. Metal is an insulator B. The soup is cold

C. Metal conducts heat D. Spoons make heat

2 📎 A paper clip fills a gap in a circuit and the bulb lights. What does this show?

A. The paper clip is an insulator

B. The battery is empty

C. The paper clip is a conductor

D. The bulb is broken

3 🔌 Why are electric wires covered in plastic?

A. Plastic is a safe insulator

B. Plastic makes electricity faster

C. Plastic glows in the dark D. Plastic is a metal

4 What should you use to hold a hot pot?

A. A thick oven mitt B. A sheet of foil

C. A metal ruler D. Bare hands

5 🍳 Why do pot handles often have plastic or wood on them?

A. They make the pot cook faster

B. They make the pot heavier

C. They carry heat to your hand

D. They slow heat so you do not get burned

6 A plastic straw fills the gap in a circuit and the bulb stays dark. Why?

A. Plastic is a conductor B. Plastic is an insulator

C. The bulb is too bright D. Straws make light

7 Which material is a good conductor of electricity?

A. Wood B. Plastic C. Copper D. Rubber

8 Which material is an insulator?

A. Aluminium B. Rubber C. Iron D. Copper

✏️ Explain it! Write two facts you learned about conductors and insulators.

ANSWER KEY

Conductors and Insulators: Learn and Practice (answers)

Which materials let electricity flow?

Read each question. Circle the best answer.

1 🥄 A metal spoon in hot soup gets hot. Why?

A. Metal is an insulator B. The soup is cold

C. Metal conducts heat D. Spoons make heat

Metal lets heat travel through it quickly, so heat moves from the soup all the way up the spoon.

2 📎 A paper clip fills a gap in a circuit and the bulb lights. What does this show?

A. The paper clip is an insulator

B. The battery is empty

C. The paper clip is a conductor

D. The bulb is broken

Electricity flowed through the paper clip and lit the bulb, so the clip is a conductor.

3 🔌 Why are electric wires covered in plastic?

A. Plastic is a safe insulator

B. Plastic makes electricity faster

C. Plastic glows in the dark D. Plastic is a metal

Plastic stops electricity from leaving the wire and reaching your hand. It is a safety coat!

4 What should you use to hold a hot pot?

A. A thick oven mitt B. A sheet of foil

C. A metal ruler D. Bare hands

A thick mitt is an insulator, so it slows the heat and protects your hand.

5 🍳 Why do pot handles often have plastic or wood on them?

A. They make the pot cook faster

B. They make the pot heavier

C. They carry heat to your hand

D. They slow heat so you do not get burned

Wood and plastic are insulators. They keep the handle cool enough to hold safely.

6 A plastic straw fills the gap in a circuit and the bulb stays dark. Why?

A. Plastic is a conductor

B. Plastic is an insulator

C. The bulb is too bright D. Straws make light

Plastic blocks electricity, so the loop is not complete and the bulb cannot light.

7 Which material is a good conductor of electricity?

A. Wood B. Plastic **C. Copper** D. Rubber

Copper is a metal, and metals let electricity flow easily. That is why wires are made of copper.

8 Which material is an insulator?

A. Aluminium **B. Rubber** C. Iron D. Copper

Rubber blocks electricity from passing through. The other three are metals, which conduct.