

Which object is most likely made from an insulating material?



- a) A frying pan
- b) A wool scarf
- c) A copper wire
- d) A metal door knob



Which of the following materials is a conductor of electricity?



- a) Plastic
- b) Rubber
- c) Copper
- d) Wood



Which material is most likely to be an insulator?



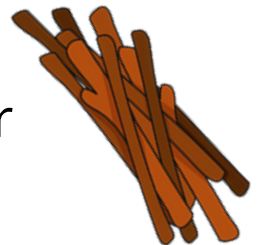
- a) Aluminum foil
- b) Iron nail
- c) Glass
- d) Steel



Which of the following would allow electricity to flow through it?



- a) A wooden stick
- b) A piece of rubber
- c) A steel spoon
- d) A paper towel



1

A wool scarf

2

Copper

Glass

3

A steel spoon

4

Why are electrical wires often covered in plastic?

- a) To make them shiny
- b) To stop electricity from passing through
- c) To help electricity flow faster
- d) To make wires lightweight



What happens when an insulator is placed in an electrical circuit?

- a) The circuit continues to work.
- b) The circuit stops working.
- c) The circuit works faster.
- d) The circuit explodes.



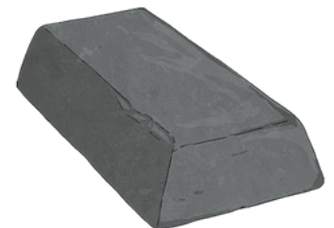
Which statement is true about conductors?

- a) They block the flow of electricity.
- b) They allow electricity to pass through them easily.
- c) They are always made of metal.
- d) They cannot transfer heat



Which of the following is NOT a conductor?

- a) Aluminum
- b) Iron
- c) Glass
- d) Gold



To stop electricity
from passing
through

The circuit
stops working.

They allow
electricity to pass
through them
easily.

Glass

Why is rubber used to make the handles of electrical tools?

- a) It is shiny and colorful.
- b) It is strong and durable.
- c) It does not conduct electricity.
- d) It allows electricity to pass through easily.



Imagine you are testing materials to see if they are conductors or insulators. Which tool would you most likely use?

- a) A flashlight
- b) A thermometer
- c) A battery and light bulb circuit
- d) A ruler



Which of these is a good conductor and often used in electrical wiring?

- a) Plastic
- b) Copper
- c) Rubber
- d) Wood



Which part of a plug is made of an insulating material to protect you from electrical shock?

- a) The metal pins
- b) The wire casing
- c) The copper wire
- d) The switch



It does not
conduct
electricity.

A battery and
light bulb
circuit

Copper

The wire casing

Which of the following is an example of both a conductor and an insulator used together?

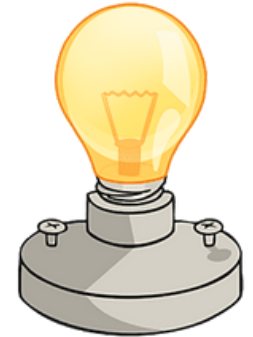


- a) A metal frying pan with a wooden handle
- b) A plastic chair
- c) A glass bottle
- d) A steel rod



If you want to stop the flow of electricity in a circuit, which material should you use?

- a) Copper
- b) Plastic
- c) Aluminum
- d) Silver



Which of the following statements is true about insulators?

- a) They allow electricity to pass through easily.
- b) They are made of metals like copper.
- c) They are used to prevent electrical shocks.
- d) They conduct heat and electricity equally well.

Why are metals like gold and silver used in electronic devices?

- a) They are cheap and easy to find.
- b) They are good insulators.
- c) They are excellent conductors of electricity.
- d) They are lightweight and flexible.

A metal frying
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wooden handle

Plastic

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