

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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1. What is the purpose of the plastic coating usually found on electric wires?

- A. to strengthen the wires
- B. to prevent electric shocks
- C. to make better connections
- D. to keep the wires from getting hot

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2. If you dissolved a lot of salt in some water in a large flat dish and put the dish in bright sunlight on a hot day, what would be left in the dish after a long time?

- A. dry salt
- B. water with no salt
- C. the same salty water as before
- D. nothing

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3. To have an electric current when using batteries, there MUST be a

- A. complete circuit.
- B. switch.
- C. lightbulb.
- D. motor.

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4. William put a sugar cube in a cup of hot water. After a period of time, what happened to the sugar cube?

- A. It dissolved.
- B. It stayed on the bottom of the cup.
- C. It evaporated.
- D. It changed color.

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5. Plastic, wood, and iron are ALL made of

- A. energy.
- B. plant or animal cells.
- C. carbon molecules.
- D. atoms.

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6. An example of a liquid turning into a gas is

- A. a chocolate candy bar melting.
- B. ice cream dripping.
- C. steam turning into ice.
- D. water boiling.

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7. Which is an example of a chemical change?

- A. paper tearing
  - B. paper being colored
  - C. paper burning
  - D. paper getting wet
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8. Which term refers to the flow of electrical charges?

- A. conductance
  - B. resistance
  - C. current
  - D. energy
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9. You should NEVER turn on a radio if you are

- A. in the dark.
  - B. outside.
  - C. in the bathtub.
  - D. alone.
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10.

*Use the list below to answer this question.*

- plastic
- rubber
- glass
- paper

Which name applies to these materials because of their electrical properties?

- A. connectors
  - B. regulators
  - C. conductors
  - D. insulators
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11. Which would be a good conductor of electricity?

- A. a rubber band
  - B. a piece of paper
  - C. a penny
  - D. a mirror
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12. When several lightbulbs are connected in a series circuit, what will happen if one bulb burns out?

- A. All of the lightbulbs will go out.
- B. The other bulbs will continue to burn.
- C. The other bulbs will burn brighter.
- D. There will be a short circuit.

**Answer Key**

1. B) to prevent electric shocks
2. A) dry salt
3. A) complete circuit.
4. A) It dissolved.
5. D) atoms.
6. D) water boiling.
7. C) paper burning
8. C) current
9. C) in the bathtub.
10. D) insulators
11. C) a penny
12. A) All of the lightbulbs will go out.