

# KEY

## Electric Circuits Pre – Post Quiz

Directions: Carefully read each question. Circle the correct answer.

- Which part of the atom is important in electricity?
  - Proton
  - Neutron
  - Electron**
- Materials that allow electricity to flow easily.
  - Conductors**
  - Insulators
- Materials that resist the flow of electricity.
  - Conductors
  - Insulators**
- Which of these materials will let electricity flow through it?
  - Plastic spoon
  - Aluminum foil**
  - Paper
  - Glass
- What is the path electricity travels along?
  - Fuse
  - Relay
  - Insulator
  - Circuit**
- A light is on in the kitchen. The circuit is \_\_\_\_\_.
  - Open
  - Closed**
  - Cold
  - Double
- Which of the following would STOP the flow of electrons?
  - Metal
  - Water
  - Conductor
  - Insulator**

8. Electrical energy can be transformed into \_\_\_\_\_.
- A. Light
  - B. Sound
  - C. Motion
  - D. All of the Above**

Short Answer

9. Explain why it is dangerous to wade in a pool during a thunderstorm with lightning.

**Water is a good conductor of electricity. If your feet were in the water, the electricity from the lightning would travel through the water then through your body. The electricity would travel throughout your body because it is mostly water.**

10. What is one thing you can do to use electricity safely?

**Answers Vary:**

- **Don't put anything in an outlet except a plug**
- **Dry your hands before unplugging a cord**
- **Don't plug too many cords into one outlet**
- **Turn off the light before replacing a light bulb**
- **Never touch the inside of an appliance while it is on**
- **Keep appliances away from water**
- **During a lightning storm, turn off the TV and computer**
- **Stay away from outside power lines**
- **Don't fly a kite or climb a tree near a power line**