**KEY**

Electric Circuits Pre – Post Quiz

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

1. Which part of the atom is important in electricity?
   1. Proton
   2. Neutron
   3. **Electron**
2. Materials that allow electricity to flow easily.
3. **Conductors**
4. Insulators
5. Materials that resist the flow of electricity.
6. Conductors
7. **Insulators**
8. Which of these materials will let electricity flow through it?
9. Plastic spoon
10. **Aluminum foil**
11. Paper
12. Glass
13. What is the path electricity travels along?
14. Fuse
15. Relay
16. Insulator
17. **Circuit**
18. A light is on in the kitchen. The circuit is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
19. Open
20. **Closed**
21. Cold
22. Double
23. Which of the following would STOP the flow of electrons?
24. Metal
25. Water
26. Conductor
27. **Insulator**
28. Electrical energy can be transformed into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
29. Light
30. Sound
31. Motion
32. **All of the Above**

Short Answer

1. 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.**

1. 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**