

Name: _____

Date: _____



GENIUSCHALLENGE

ELECTRICITY AND CIRCUITS

1. The flow of electricity from one place to another is called _____.
2. A closed path that allows electrical energy to flow is called a(n) _____.
3. Gold, silver, copper, and aluminum are _____, which are materials that electricity can easily flow through.
4. True or False: Solutions that have salts dissolved in water can conduct an electric current. _____
5. Wood, plastic, rubber, and glass are _____, which are materials that electricity cannot easily flow through.
6. Describe the energy transformations that occur in a circuit that includes a battery, wire, and an incandescent light bulb. _____

7. How can you determine if a circuit is a series circuit or a parallel circuit? _____

8. What changes might you make to a circuit in order to slow the flow of electrical energy?

9. Many electronic devices use a(n) _____, which contains all the circuit parts in a miniature form.
10. _____ design electrical circuits for larger power grids and for all kinds of devices such as phones, televisions, robots, electric cars, and computers.