



Name \_\_\_\_\_

# CURRENT ELECTRICITY

## from the series *Electricity and Magnetism*

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I. Directions: Pick the definition in column B that best matches the word in column A. Write the letter of the definition on the blank line.

- | A                            | B  |
|------------------------------|--|
| 1. current electricity _____ | a. Something that lets electrons flow easily through it.   |
| 2. circuit _____             | b. Can start a fire or cause other problems because electricity can escape from its path.            |
| 3. conductor _____           | c. Something that stops the flow of electrons.   |
| 4. insulator _____           | d. Electrons that are moving.  |
| 5. switch _____              | e. Protects buildings from overloading circuits and fires.   |
| 6. short circuit _____       | f. Something that can control the flow of electricity through a circuit.                             |
| 7. circuit breaker _____     | g. Made up of three main parts: a source of electrons, an object to use the electricity, and a path. |

II. Directions: The following questions need a short answer.

1. Describe how a series and a parallel circuit are different from each other.
  
  
  
  
  
  
  
  
  
  
2. Why is a parallel circuit used in household wiring?
  
  
  
  
  
  
  
  
  
  
3. Why are certain metals, such as copper, silver, and gold, good conductors of electricity?



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**Directions:** At the end of the program, there is a short quiz. You can record your answers on this sheet.

- Current electricity is \_\_\_\_\_.
  - a conductor
  - an insulator
  - the flow of electrons
  - a closed circuit
- A complete circuit is made of three things:
  - An insulator, a source of electrons, and a path.
  - A conductor, a source of electrons, and a path.
  - A switch, a source of electrons, and a path.
  - Something to use the electricity, a source of electrons, and a path.
- Something that allows electrons to flow easily through it is called \_\_\_\_\_.
  - an insulator
  - a conductor
  - a switch
  - a current
- Something that slows the flow of electrons is called \_\_\_\_\_.
  - an insulator
  - a conductor
  - a switch
  - a current
- There are two types of circuits: \_\_\_\_\_.
  - insulators and conductors
  - closed and open
  - series and parallel
  - switch and current