

ELECTRICITY STUDY GUIDE-ANSWERS

Fill-in the-Blank

Pg. 1

WORD BANK

closed	electricity
open	electric
electric current	electric charge

1. **Electric current** is the movement of electrons from one place to another.
2. An incomplete or broken path for electric current is a/an **open** circuit.
3. A/an **electric** circuit is a path for electric current to flow.
4. **Electric charges** are the particles of matter that are positively or negatively charged.
5. A complete, or unbroken path for electric current is a **closed** circuit.
6. A form of energy produced by the movement of electrons is **electricity**.

Pg.2

1. More **cells** will make an electromagnet more powerful and able to pick up more objects, like paper clips.
2. A switch is used to **turn** electricity on and **off**.
3. A circuit needs a power source (battery), and output device (light bulb), and two **wires** connecting the battery and light bulb.
4. The safest way to conduct and experiment with electricity is to stay away from **water**.
5. What will happen between the north and south poles of a magnet? **They will attract**.
6. Clothes sticking together in a dryer is an example of **static electricity**.
7. In a **parallel** circuit, when one bulb goes out, the others shine.
8. **Metals, water,** and **people** are good conductors of electricity.
9. An **insulator** transfers electricity poorly.
10. **Electrons** are the particles that actually move to cause a buildup of electric charge.
11. If all of the lights in a school go out when one light switch is turned off, then we can say that the school is on a **series** circuit when it should be on a **parallel** circuit.
12. **Metal** objects conduct electricity. A metal spoon, a dime, a paper clip, and **copper** wire are examples.
13. The **proton** particles in an atom are positively charged.

True/False:

- T** 1. An electromagnet is a temporary magnet made up of a wire wrapped around a core.
- T** 2. In a series circuit, there is only one path for electrical current to flow.
- T** 3. An electromagnet can turn on and off, and permanent magnets cannot.
- F** 4. When you add a second bulb to a series circuit, you increase the electric field.
- F** 5. The space in which an electric force acts on is its electric current.

Electricity Study Guide Answers

Scott C. Dulebohn

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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