Understanding Series Circuits

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Review Questions on Series Circuits

Name: _____ Date: _____

Answer the following questions based on the lesson about series circuits.

1. What makes a series circuit unique?

- **A.** It has multiple pathways
- **B.** It has components connected end-to-end
- **C.** It only uses one light bulb

2. What happens to the current when one component in a series circuit fails?

3. If one bulb is removed from a series circuit, the entire circuit will still work.

◯ True ◯ False

4. In a series circuit, current flows through every component in a ___ pathway.

5. How is a series circuit similar to a chain?

- **A.** Both have branches
- **B.** Both are connected in a single path
- **C.** Both can work independently

6. Explain why the body of Christ is compared to a series circuit in the lesson.

7. Removing one bulb from a series circuit affects the entire circuit's functionality.

◯ True ◯ False

8. A series circuit must have all components connected for the current to ___ through them.

9. What is one important characteristic of current in a series circuit?

- **A.** It can flow in multiple directions
- **B.** It flows through each component one after another
- **C.** It can skip components

10. Describe a simple experiment you might do to observe the effect of removing a component from a series circuit.

Answer Key

1. It has components connected end-to-end 2. The current stops flowing because all components need to work for the circuit to be complete. 3. False 4. single 5. Both are connected in a single path 6. Just as each component in a series circuit is needed for it to work, every believer is important in the body of Christ. 7. True 8. flow 9. It flows through each component one after another 10. I would build a series circuit with two bulbs. Then, I would remove one bulb to see if the other bulb lights up or not.