

# Building Simple Circuits Review

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## Understanding Electricity Basics

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Answer the following questions based on what you learned about building simple circuits.

1. What is necessary for electricity to flow in a circuit?

- A. A complete path
- B. A broken path
- C. Only a battery

2. Batteries provide the electrical energy needed for a circuit to work.

- True       False

3. What happens if we break the circuit?

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4. Wires are used to carry \_\_\_\_ in a circuit.

5. How is a circuit similar to a race track for electrons?

- A. Electrons can stop anywhere
- B. Electrons need a complete loop
- C. Electrons go in circles forever

6. A circuit can work with an incomplete path.

- True       False

7. How does building a circuit show God's perfect design?

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8. In Colossians 1:17, it says that in Him all things hold \_\_\_\_.

9. What component in the circuit causes the bulb to light up?

- A. The wires
- B. The battery
- C. The complete circuit

10. Electricity can flow through a broken circuit.

- True       False

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### Answer Key

1. A complete path   2. True   3. If we break the circuit, the flow of electricity stops, and the bulb will not light up.   4. electrical current   5. Electrons need a complete loop   6. False   7. Building a circuit shows God's perfect design because everything works together, just like creation holds together in Him.   8. together   9. The complete circuit   10. False