

Assessment

Lesson 2.4 Summative Assessment Questions

1. When one wire is disconnected in a ___ circuit, all of the components will not function.

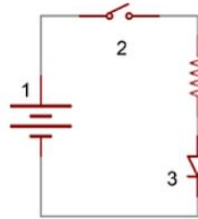
- A. Series
- B. Parallel
- C. Consecutive
- D. Neighbor

2. Which of these is FALSE for a parallel circuit?

- A. All components are wired separately, so more wires are needed.
- B. If one component fails, the others continue to operate.
- C. If one component fails, they all fail.
- D. Current flows in multiple branches at once from the same power source.

3. Identify the components in this circuit diagram.

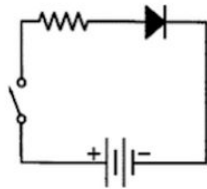
- A. Switch
- B. Power Source
- C. LED



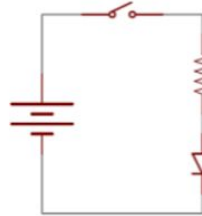
4. What are the tiny (subatomic) particles that are flowing through a circuit called?

- A. Energons
- B. Electrons
- C. Neutrons
- D. Croutons

5. Annie made several circuit diagrams while designing her invention. In which circuit will the LED light shine?



A



B



C

6. Josh is helping hang a string of LED lights for a school party. On the box it says the lights are in a parallel circuit. Which of these statements is **TRUE** about the lights?

- A. Each light must have its own battery.
- B. If one light is broken, the other lights will stay lit.
- C. The lights are wired together in a series circuit.
- D. If one light is removed from the circuit, the other lights will not work.