

Name: _____

Series vs. Parallel Circuits

Objective: To compare series and parallel circuits.

Safety: Do not allow any part of your body to become part of the circuit!

Procedure:

SERIES CIRCUITS

- Refer to the hand-out called "Series Circuits". Replicate the 1st diagram.

1. How does the brightness of this bulb compare to others we lit with the D cell battery? _____

2. What is the reason for this difference? _____

- Now replicate the 2nd diagram.

3. What happens to the brightness of the bulbs? _____

- Now replicate the 3rd diagram.

4. Do all the bulbs light up? _____

- Open, or unhook, the circuit. Take the middle bulb out of its holder. Now close, or complete, the circuit again.

5. What happened to the other bulbs when one was removed? _____

6. Give an example of when this kind of circuit might cause a problem. _____
