

NAME _____

DATE _____ Pd _____

66.1 Connecting Circuits

Part A

Draw the circuit your team created:

Replace the bulb with the following and record your observations for:

- The motor: _____
- The buzzer: _____

Part B

1. What happens when you unscrew one of the bulbs for a socket in a series circuit?

2. What happens with you remove a bulb and a wire from the circuit and then reconnect?
(two bulbs in the series circuit are left)

3. What happens when you remove another bulb and wire from the circuit and then reconnect?
(one bulb is left in the series circuit)

4. Describe the differences between the 3-, 2-, and single-bulb combinations in series.

5. What happens when you unscrew one of the bulbs for a socket in a parallel circuit?

6. What happens when you replace one bulb with a motor in the parallel circuit?

7. What happens when you replace the motor with a buzzer in the parallel circuit?

8. What happens once you remove the buzzer, and leave the parallel circuit with just two bulbs?

9. What happens when you remove another bulb and wire from the circuit and then reconnect?
(one bulb is left in the parallel circuit)

10. Describe the differences between the 3-, 2-, and single-bulb combinations in parallel.

Concluding thoughts:

What are the differences between series and parallel circuits?
