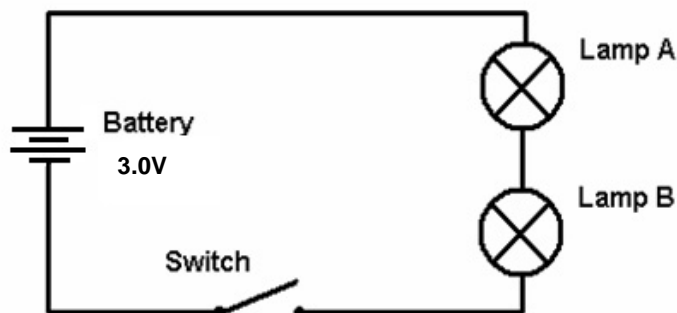


Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Series Circuit Building Worksheet Answers

1. Draw a circuit diagram of the series circuit you constructed with two batteries (taped together as one), two light bulbs and a switch, if used.



2. What happened in the series circuit (above) when you closed the switch?

**Both bulbs light up.**

3. What happened in the series circuit when you removed one light bulb?

**The remaining bulb did not light up.**

4. What happened in the series circuit when you removed the other light bulb?

**The remaining bulb did not light up.**

5. What happened in the series circuit when you added a third bulb in series?

**The bulbs all got dimmer.**

6. What happens to the brightness of bulbs if you increase the number of bulbs in a series circuit?

**The bulbs will all get dimmer.**

7. What happened to the brightness of the bulbs when a third battery was added in series?

**The bulbs all got brighter.**

8. How is opening the switch like removing a light bulb from the circuit?

**It breaks (opens) the electrical path (circuit), so current cannot flow, and the bulbs do not light up.**