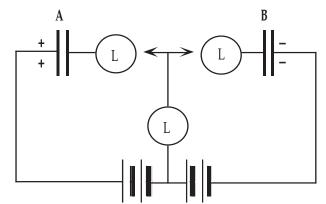


4. A third bulb will be added to the incomplete island circuit similar to the one you investigated in Figure 8.6a, as shown. The 4-cell battery has been separated into two 2-cell batteries and the connection to the third bulb is made between them.



Predict the observed brightness of the third bulb over time after this connection is made.

## **Prediction:**

Once you have made your prediction, construct the circuit. You and your partner can work together to make the simultaneous connection.

**Observations:** 

**Explanation:** 

5. Color code the diagram, including the plates, the wires, and objects placed between the plates (at the circles).

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