Make a Bulb Light

Procedure

1. **Collaborate** Work with a partner to connect the battery, wires, and bulb as shown in Diagram A in your book. Did the arrangement of materials in Diagram A make the bulb light?

2. **Observe** Repeat Step 1 for Diagram B in your book. Did the arrangement of materials in Diagram B make the bulb light?

3. **Predict** Predict whether the arrangement of materials in Diagram C in your book will make the bulb light?

4. **Experiment** Test your prediction. Make the connections shown in Diagram C. How do your results compare with your prediction?

5. **Experiment** Test other ways to arrange the materials so that the bulb lights. Draw each of your arrangements in the space below. Also record your results next to each drawing.
Conclusion
On the lines below, write the answers to the questions.

1. Analyze Data  Which arrangement caused the bulb to light?

2. Hypothesize  When you made the bulb light, you made an electric circuit. Think about the arrangement of materials when the bulb lit and when it did not. Form a hypothesis about what an electric circuit is.

Investigate More!

Experiment  Use what you learned in the Investigate to design a circuit that will make two bulbs light. Draw your design. Then use the materials provided to test your design.