



# 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?

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

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

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

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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.

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

## Conclusion

On the lines below, write the answers to the questions.

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

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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.

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**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.

Guided Inquiry