

Circuit Search

Procedure

- 1. Research** Use the Internet, library, or other resources to find out how to make a simple electric circuit. The circuit should include one or more dry cells. Have your teacher check the instructions before you follow them.
- 2.** Using the materials provided, follow the instructions to set up a circuit. Do not connect the last wire to the dry cell yet. **Safety:** The wires may be sharp.
- 3. Predict** Predict what will happen when you make the last connection and complete the circuit. Record your prediction on the lines below.

- 4. Experiment** Complete the circuit by connecting the last wire to the dry-cell holder. Observe and record what happens.

Conclusion

Write the answers to the questions below.

1. **Analyze Data** What form of energy does a dry cell contain? What form of energy does the buzzer produce?

2. **Research** Use science resources to find out what form of energy travels through the wires of the circuit.

3. **Hypothesize** Use your results to hypothesize how a doorbell works.

Investigate More!

Solve a Problem People who are hearing impaired may not be able to hear a doorbell ringing. How could you use a circuit to create a signal that a hearing-impaired person could sense?