

# Motorized Electricity

## Procedure

- 1. Collaborate** Work in a small group. Attach the propeller to the axle on the motor. Make sure that the switch is in the off position. Then make a circuit using the battery, switch, motor, and three wires. Use the photo in your book as a guide.
- 2. Observe** Hold the motor so the propeller can turn. Turn the switch on. Observe the response of the motor's propeller. Record your observations on the lines below.

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- 3. Experiment** Turn the switch off to stop the motor. Disconnect the wires that are attached to the battery and reattach them to the opposite battery terminals.
- 4. Observe** Turn the switch back on. Observe the response of the motor's propeller. Record your observations on the lines below.

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## Conclusion

Write the answers to the questions below.

1. **Compare** What change did you notice in the response of the motor's propeller?

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2. **Predict** What would change, if anything, if you reversed the order of the switch and the motor in the original circuit? Explain your answer.

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## Investigate More!

**Be an Inventor** What else could be attached to the motor's axle? Invent a device that is useful, entertaining, or artistic. Draw a diagram to show your design.

