

## Section 3

### Understanding Matter and Energy

#### EXPLORATION 1

## Wind Energy

Investigate how wind provides energy.

Air is constantly moving around us. Moving air is called wind. We cannot see wind, but we can feel it. Wind can be a gentle breeze or a violent hurricane. People use the power of wind not only to do lots of things like sailing and drying clothes, but also for fun things like flying kites. However, how can we show that wind can make things move?



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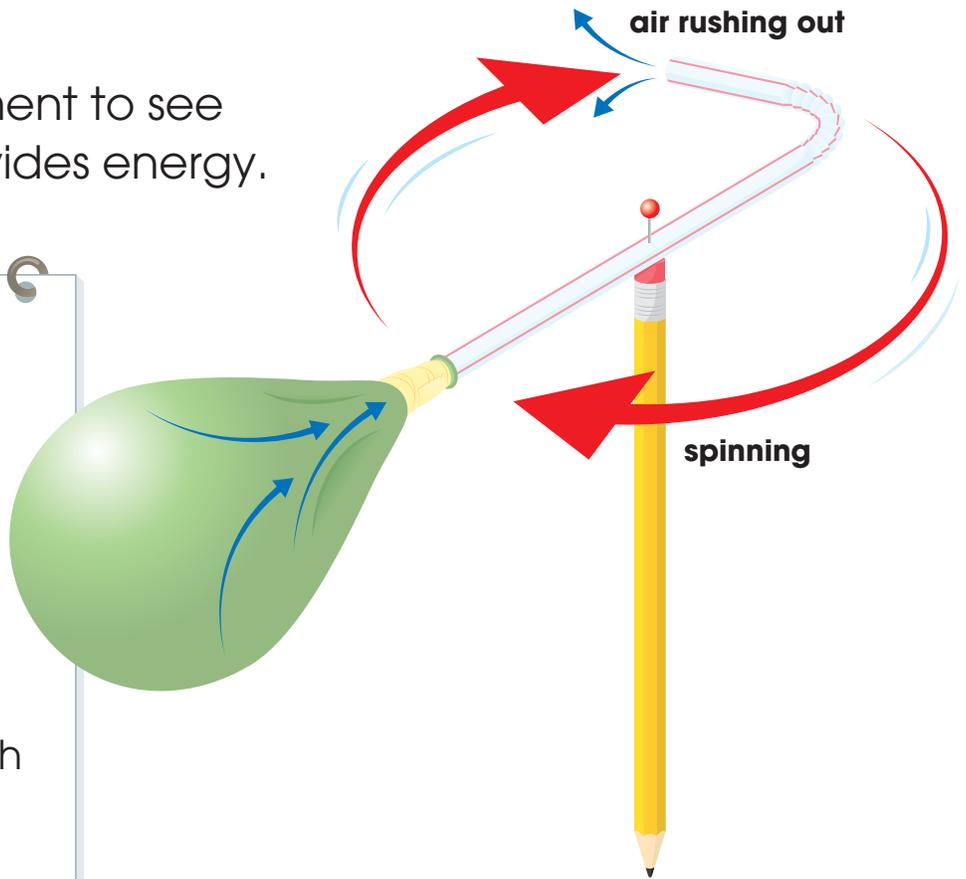
#### EXPLORATION 1

## Wind Energy

Try this experiment to see how wind provides energy.

### Materials:

- a pin
- tape
- a straw
- a balloon
- a pencil with an eraser



**Set up a balloon pinwheel as shown.**

After blowing air into the straw and releasing it, you would have seen the straw spin around until the balloon deflated. The air rushing out of the balloon through the straw created moving air. It pushed the straw and caused the balloon to spin. The more air you blew into the balloon, the more wind energy was created. It pushed the balloon pinwheel to spin faster as a result.

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**Read about wind farms. Then draw the missing wind turbine.**

Wind farms use spinning wind turbines to change the wind energy to electricity. Canada has many incredible wind farms, mostly in Alberta, Ontario, and Quebec. The largest in the country is the Seigneurie de Beaupré Wind Farms in Quebec.

