



Name:

Date:

## Student Exploration: Electromagnetic Induction

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** current, electric field, electromagnetic induction, magnetic field, magnetic flux, right-hand rule, vector, voltage, wind generator



**Prior Knowledge Question** (Do this BEFORE using the Gizmo.)

A **wind generator**, such as the one shown at left, uses the power of wind to generate electricity. What do you think is happening inside the wind generator to convert the energy of the spinning blades into electricity? Make your best guess.

Inside the wind generator I think it has certain parts that also start moving, creates friction and after that it creates current.

### **Gizmo Warm-up**

Usually when you experiment with circuits, you use a battery or another energy source to create a current. But is it possible to generate a **current** without a battery? You can find out with the *Electromagnetic Induction* Gizmo.

In the Gizmo, you can drag the wire loop around or use the controls to move the magnet up and down. You can also rotate the wire loop. Experiment with the Gizmo to see how many different ways you can create a current in the wire loop and light the light bulb. Describe your findings below.



There's one way which is by rotating the bulb and when is upside down and the the magnet moving forward it creates current.

# Student Exploration Electromagnetic Induction Key

**M Lipman**



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