# **Energy Conversions Gizmo**

NRG 6.1

#### **Directions**

Follow the instructions to go through the simulation. Respond to the questions and prompts in the boxes.

#### Vocabulary

chemical energy, electrical current, energy, fossil fuel, global warming, gravitational potential energy, hydroelectricity, kinetic energy, light, nonrenewable resource, nuclear energy, renewable resource, sound, thermal energy

#### Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Question/Prompt		Your Response	
1.	What are sources of electricity? List as many as you can.	~sunlight ~wind ~hydropower	
2.	Where do people and other animals get energy to move around?	~food and drinks	
3.	Where do plants get energy to live and grow?	-sunlight -water -soil	

#### Gizmo Warm-up

In the Energy Conversions Gizmo, be sure **Information** mode is selected. Click on each of the different items in the scene and read about each one.

Question/Prompt		Your Response
4.	Which object converts sunlight into sugars?	com
5.	Which object converts wind power to electricity?	wind turbine
<b>6.</b>	Which object converts light to electricity?	solar panels
7.	Which object converts electricity to light?	light bulb



#### Activity A: Energy Paths

Where do we get energy to run, climb, play, and do all the other things we do? Get the Gizmo ready:





# **Answers For Gizmo Energy Conversions**

**M** Lipman

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