

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?	corn
5. Which object converts wind power to electricity?	wind turbine
6. 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:

- Select the Path mode.



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RC Schank



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