

# 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<br>~wind<br>~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<br>~water<br>~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.



# Answers For Gizmo Energy Conversions

**United States. Congress. Senate.  
Select Committee on Small Business**

## Answers For Gizmo Energy Conversions:

**Reserves** H. G. Hedger, 2025-08-13 Grace Holden has it all a handsome husband a satisfying career three daughters and a house in the suburbs However when she flies home to care for her dying father everything changes A deathbed promise and a phone call turn her world upside down Can she fulfill her father's final wishes while ensuring the safety of those she loves Embark on Grace's tumultuous journey as she unravels the cryptic clues her father left behind all while keeping one step ahead of a powerful corporation determined to undermine and threaten her at every turn Alternative Long-range Energy Strategies United States. Congress. Senate. Select Committee on Small Business, 1977 Solar Energy Project United States. Department of Energy. Office of Conservation and Solar Applications, 1979 Hydrogen & Fuel Cell Letter, 1998 New Scientist, 2007 *New Scientist and Science Journal*, 2006 *The H Factor* L. E. Indianer, 2011 **Water & Sewage Works**, 1973-02 **Electronics Now**, 1998 **The Atlantic Monthly** James Russell Lowell, James Thomas Fields, William Dean Howells, Thomas Bailey Aldrich, Horace Elisha Scudder, Walter Hines Page, Bliss Perry, Ellery Sedgwick, 1977

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