

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

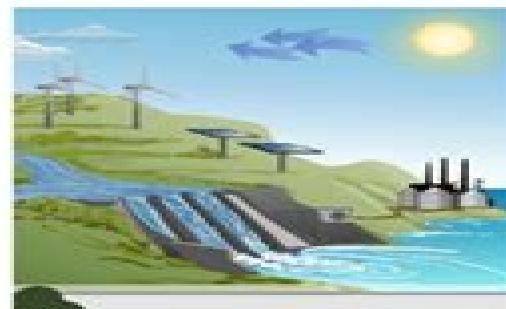
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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.



Answers For Gizmo Energy Conversions

David Kirk

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Answers For Gizmo Energy Conversions

1. Understanding the eBook Answers For Gizmo Energy Conversions
 - The Rise of Digital Reading Answers For Gizmo Energy Conversions
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Gizmo Energy Conversions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Gizmo Energy Conversions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Gizmo Energy Conversions
 - Personalized Recommendations
 - Answers For Gizmo Energy Conversions User Reviews and Ratings
 - Answers For Gizmo Energy Conversions and Bestseller Lists
5. Accessing Answers For Gizmo Energy Conversions Free and Paid eBooks

- Answers For Gizmo Energy Conversions Public Domain eBooks
- Answers For Gizmo Energy Conversions eBook Subscription Services
- Answers For Gizmo Energy Conversions Budget-Friendly Options
- 6. Navigating Answers For Gizmo Energy Conversions eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Gizmo Energy Conversions Compatibility with Devices
 - Answers For Gizmo Energy Conversions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Gizmo Energy Conversions
 - Highlighting and Note-Taking Answers For Gizmo Energy Conversions
 - Interactive Elements Answers For Gizmo Energy Conversions
- 8. Staying Engaged with Answers For Gizmo Energy Conversions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Gizmo Energy Conversions
- 9. Balancing eBooks and Physical Books Answers For Gizmo Energy Conversions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Gizmo Energy Conversions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Gizmo Energy Conversions
 - Setting Reading Goals Answers For Gizmo Energy Conversions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Gizmo Energy Conversions
 - Fact-Checking eBook Content of Answers For Gizmo Energy Conversions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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