

Student Exploration: Energy Conversion in a System

Vocabulary: energy, gravitational potential energy, heat energy, kinetic energy, law of conservation of energy, specific heat capacity

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

A battery contains stored **energy** in the form of chemical energy.


1. What are some examples of devices that are powered by batteries? **A calculator, batteries, flashlights.**
2. What different forms of energy are demonstrated by these devices? **Most of them demonstrate kinetic energy/electrical energy.**

Gizmo Warm-up

Energy constantly changes from one form to another, but in a closed system, the total amount of energy always remains the same. This concept is known formally as the **law of conservation of energy**.

The *Energy Conversion in a System* Gizmo™ allows you to observe the law of conservation of energy in action. In the Gizmo, a suspended cylinder has **gravitational potential energy**. When the cylinder is released, the gravitational potential energy is converted into **kinetic energy**, which causes the stirrer in the water to spin.



1. What is the initial temperature (T) of the water? **25 Celsius**
2. Click **Play** () . What happens as the cylinder drops? **The temperature increases and the cylinder decreases in height as it lowers from its original position in mid-air.**
3. What is the final temperature of the water? **29.69 Celsius**
4. Why do you think the temperature of the water increased? **I think that the movement created by the little turbine fan within the beaker transferred more kinetic energy which adds heat energy to the water. Such as when a liquid turns into gas the molecules have a higher kinetic energy than the liquid.**

Energy Conversion Gizmo Answers

JE Gale

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'JE Gale' text.

Energy Conversion Gizmo Answers:

The Enigmatic Realm of **Energy Conversion Gizmo Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Energy Conversion Gizmo Answers** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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