

## 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.**

# Gizmo Energy Conversion In A System Answers

**PT Brinkman**

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

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