

Student Exploration: Energy Conversions in a System

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

1. What are some examples of devices that are powered by batteries?

A calculator, batteries, flashlight

2. What different forms of energy are demonstrated by these devices?

Most of them demonstrate kinetic or electrical energy

Gizmos 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 the 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.



Student Exploration Energy Conversions Answers

Michael Rajnik



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