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.

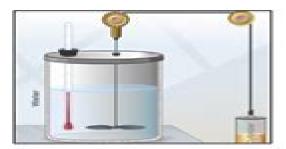
2. What different forms of energy are demonstrated by these devices? Most of them

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
- Click Play (E). What happens as the cylinder drops? The temperature increases and the cylinder decreases in height as in it lowers from its original position in mid-air.
- 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

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