



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Student Exploration: Mechanical Energy Change

**Learning Objectives:** Students will be able to: (1) explain the relationship between kinetic energy and potential energy; (2) explain the relationship between mechanical energy and work; (3) explain the relationship between mechanical energy and power.

**Background:** Kinetic energy is the energy of motion. Potential energy is the energy stored in an object because of its position or condition.

**Prerequisite Knowledge:** Students should understand the concepts of work and power.

1. What is the relationship between kinetic energy and potential energy? (Kinetic energy is the energy of motion, and potential energy is the energy stored in an object because of its position or condition.)

Kinetic energy is the energy of motion, and potential energy is the energy stored in an object because of its position or condition.

2. How does kinetic energy change when potential energy is used? (Kinetic energy increases when potential energy is used, and vice versa.)

Kinetic energy increases when potential energy is used, and vice versa.

**Student Exploration:**

The relationship between kinetic energy and potential energy is a fundamental concept in physics. It is the relationship between the energy of motion and the energy stored in an object because of its position or condition.

1. **Question:** What is the relationship between kinetic energy and potential energy? (Kinetic energy is the energy of motion, and potential energy is the energy stored in an object because of its position or condition.)

Is there a relationship between them?

Yes, there is a relationship between them.

2. **Question:** How does kinetic energy change when potential energy is used? (Kinetic energy increases when potential energy is used, and vice versa.)

How does kinetic energy change when potential energy is used?

It increases.

3. **Question:** What is the relationship between kinetic energy and potential energy? (Kinetic energy is the energy of motion, and potential energy is the energy stored in an object because of its position or condition.)

Is there a relationship between them?

Yes, there is.

Can you explain the relationship between them?

Yes, I can.



# Gizmo Student Exploration Household Energy Usage Key

**ML Yell**



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web jun 29 2016 explanation step 1 the problem describes a sound that is moving toward a stationary observer with an air temperature of  $15^\circ\text{C}$  since the speed of sound increases as the temperature increases we must determine the speed of the waves at  $15^\circ\text{C}$  this can be found with the formula

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of  $\nu_3 = 335 \text{ Hz}$   $5335 \text{ Hz}$   $20350 \text{ Hz}$   $32426 \text{ Hz}$  example solve problems on doppler effect where non linear motion is