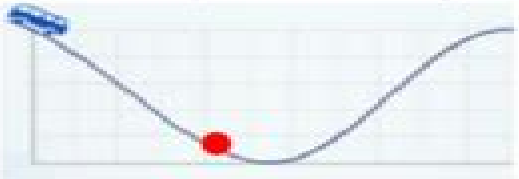
Student Exploration: Energy of a Pendulum

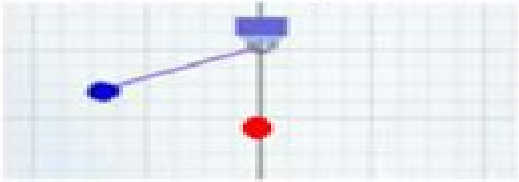
Vocabulary: conservation of energy, gravitational potential energy, kinetic energy, pendulum, potential energy, velocity

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

1. A toy car is about to roll down a track, as shown below. At what point do you think the car will reach its greatest speed? Mark this point on the image.



2. A **pendulum** consists of a weight that is suspended from a pivot. At what point will the pendulum below move fastest? Mark this point on the image.

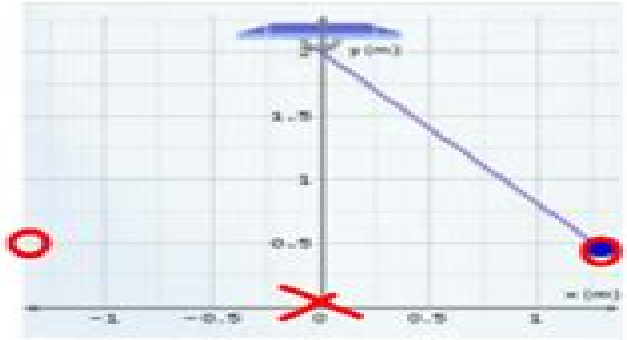


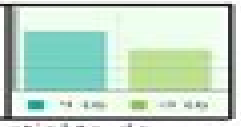
3. What do these two situations have in common? **These two situations have varying speeds during the period of movement.**

Gizmo Warm-up

Objects have several types of energy. **Potential energy** depends on an object's position or shape. **Kinetic energy** is the energy of movement. The *Energy of a Pendulum* Gizmo™ allows you to explore how the amounts of these types of energy change for a pendulum in motion.

1. On the DESCRIPTION pane, change the initial angle (***θ***) to 40 degrees. Click **Play** (▶). How does the **velocity** (speed and direction) of the pendulum change as it swings from right to left? **It slows down at the far sides and speeds up in the center.**
2. On the image at right, mark the point where the pendulum swings fastest with an *X*. Then, circle the two points where the velocity is zero.



Activity A: **Potential and kinetic energy**	Get the Gizmo ready: • Click **Reset** (↺). • Check that ***m*** is 0.5 kg, ***L*** is 2.0 m, ***g*** is 9.8 m/s², and ***θ*** is 40 degrees.	

Introduction: An object that is a certain height (*h*) above the ground has the potential to do work, and therefore has potential energy. This type of potential energy is called **gravitational potential energy** (*GPE*, or *PE* for short). The unit of energy is the joule (J).

Question: How are potential and kinetic energy related?

1. Observe: Select the BAR CHART tab. Click **Play** and observe. What do you notice about the gravitational potential energy (***PE***), kinetic energy (***KE***), and total energy (***TE***)? **As PE increases, KE decreases, and TE stays the same.**
2. Measure: Click **Reset**. Turn on **Show numerical values**.
   A. What is the gravitational potential energy? **PE, 1.97**

Energy Of A Pendulum Gizmo Answer Key

Wan Yong Loo

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