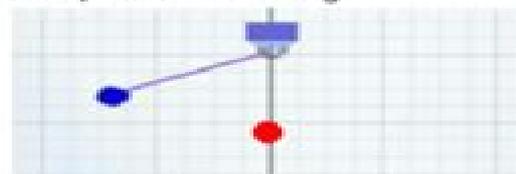


Student Exploration: Energy of a Pendulum

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

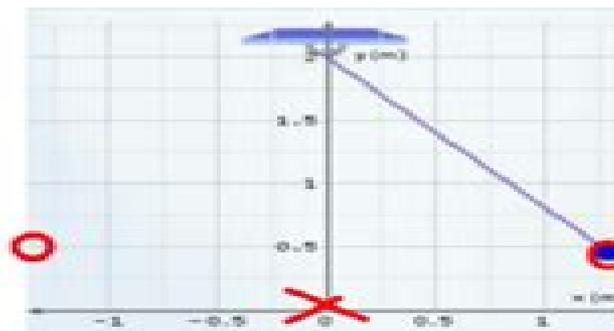
Objects have several types of energy. **Potential energy** depends on an object's position or shape.

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.



<p>Activity A:</p> <p>Potential and kinetic energy</p>	<p><u>Get the Gizmo ready:</u></p> <ul style="list-style-type: none"> • 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. 	
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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

SJ Ball



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