

## Energy Of A Pendulum Gizmo Answers Odosi

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### Energy Of A Pendulum Gizmo

Energy of a Pendulum Gizmo : ExploreLearning. Perform experiments with a pendulum to gain an understanding of energy conservation in simple harmonic motion. The mass, length, and gravitational acceleration of the pendulum can be adjusted, as well as the initial angle. The potential energy, kinetic energy, and total energy of the oscillating pendulum can be displayed on a table, bar chart or graph.

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### Energy of a Pendulum Gizmo : Lesson Info : ExploreLearning

Kinetic energy and gravitational potential energy are beautifully intertwined in the Energy of a Pendulum Gizmo. In this simple but very effective Gizmo, students view the kinetic and potential energy of a pendulum as it swings back and forth. On the downswing, the pendulum drops lower and its potential energy decreases.

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Both the potential energy and kinetic energy increase. Correct Answer: B. The potential energy decreases while the kinetic energy increases. Explanation: As the pendulum swings toward its lowest position, the height of the pendulum bob decreases and its speed increases. Potential energy is dependent on the height of the bob. Therefore, the potential energy is decreasing.

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### ENERGY OF A PENDULUM GIZMO ANSWER KEY PDF

Kinetic energyis 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.On the DESCRIPTION pane, change the initial angle ( $\theta$ ) to 40 degrees.

### Student Exploration- Energy of a Pendulum (ANSWER KEY ...

B. The potential energy decreases while the kinetic energy increases. C. The kinetic energy decreases while the potential energy increases. D. Both the potential energy and kinetic energy increase. 2.The bar chart below shows the distribution of the potential, kinetic, and total energies for a pendulum in the position shown.

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The kinetic energy would be  $KE = \frac{1}{2}mv^2$ , where  $m$  is the mass of the pendulum, and  $v$  is the speed of the pendulum. At its highest point (Point A) the pendulum is momentarily motionless. All of the energy in the pendulum is gravitational potential energy and there is no kinetic energy. At the lowest point (Point D) the pendulum has its greatest speed.

### Energy in a Pendulum | Gary Garber's Blog

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### Energy of a Pendulum - Mr. Velasquez

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Energy of a Pendulum Gizmo : ExploreLearning are illustrated in the Energy of a Pendulum Gizmo™. The Student Exploration sheet contains three activities: • Activity A – Students explore how energy is converted from gravitational potential energy to kinetic energy and vice versa. • Activity B – Students derive an equation for gravitational

### **Student Exploration Energy Of A Pendulum Answers**

Download Ebook Energy Of A Pendulum Gizmo Answers The potential energy of a pendulum is equal to the product of its mass, its height, and gravitational acceleration, which is  $9.8 \text{ m/s}^2$  on Earth's surface. When a pendulum starts its swing, it is accelerated by the force of gravity and loses height.

### **Energy Of A Pendulum Gizmo Answers**

In the meantime, he began the science of harmonic motion and inspired the invention of the pendulum clock. The Simple Harmonic Motion Gizmo explores the oscillations of pendulums and springs. Students manipulate the mass and stiffness of the spring and the mass and length of the pendulum, as well as the strength of gravity, to see how each factor affects—or doesn't affect—the period of the motion.

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As the bob begins to move, its GPE is transformed into kinetic energy (KE), or energy of motion. When the pendulum is at the part of its period where it is at a 90 degree angle with the floor, its original GPE has been entirely trans- formed into KE. As it continues to swing and move upward on the arc, the KE is transformed back to GPE.

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