

Name: _____

Period: _____

Kinetic and Potential Energy Study Guide

Part 1: Vocabulary – define each vocabulary word on a separate sheet of paper or notecards.

Kinetic energy– energy of motion or movement. can be measured by the formula,
 $KE = 1/2mv^2$

Potential energy – energy of an object due to its position or shape. There are many forms of potential energy, gravitational, chemical nuclear, elastic and sometimes electrical.

Mechanical energy – the sum of kinetic and potential energy in an object that is used to work. Energy in an object due to its motion or position or both.

Law of conservation of energy– energy cannot be created nor destroyed only transferred.

Transformation– energy being change from one type of energy to another, with some of the energy being transferred in the form of thermal energy.

Mass–the amount of matter inside of an object.

Part 2: Short Answer

1. Write a short story about how kinetic energy is converted to potential.
A car driving down a street and stopping.
2. Write a short story about potential energy is converted to kinetic energy.
A cat knocking a spoon off a table.
3. What is the law of conservation of matter/mass/energy?
Matter/mass/energy cannot be created or destroyed only transferred.
4. Explain what happens when you toss a coin into a wishing well.
The coin has potential energy in your hand, when it is tossed it has gravitational potential energy, which is transferred to kinetic energy because the object is in motion.
5. Explain what happens when you jump on a trampoline using the words kinetic and potential energy.
At the top of your jump your potential energy is the highest, as you are falling your kinetic energy is the highest, until you reach the bottom and you are back at potential energy.
6. How can you increase the kinetic energy of an object?
Increase its mass or make it go faster.

Part 3: Application

Explain everything that is happening in the following diagrams.

Energy Study Guide Key

JS Bruner



Energy Study Guide Key:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Energy Study Guide Key**

In some sort of inundated with monitors and the cacophony of instant conversation, the profound power and psychological resonance of verbal beauty often diminish in to obscurity, eclipsed by the continuous assault of sound and distractions. Yet, set within the lyrical pages of **Energy Study Guide Key**, a charming perform of fictional splendor that pulses with organic feelings, lies an wonderful trip waiting to be embarked upon. Published by a virtuoso wordsmith, this interesting opus courses readers on a psychological odyssey, lightly revealing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is central subjects, dissect its captivating writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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