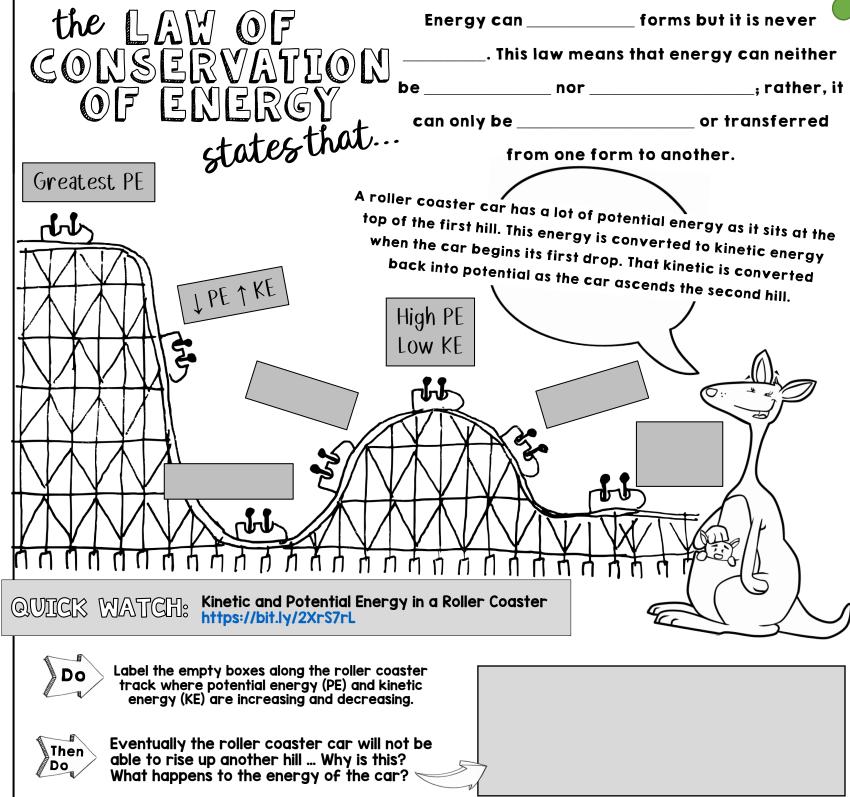


TOPTC	QUESTIONS:

5

What is the Law of

of \_\_\_\_\_?



TOPIC QUESTIONS:	ENERGY is a strange property of objects that is But other times that
(5) (g)	sometimes to see, and sometimes it is But other innecessity wealth is just being
What is energy	It is a little bit like Sometimes you can  wealthy becausesomewhere, the way
	they have a lot of things or do exciting things.  money is stored in a
	ENERGY TRANSFORMATION ———
	is the process of energy from one to another. This
	transformation is often able to be seen because it produces a in
	the object's, position,, or appearance.
What are some of energy	Riding wbike: The potential energy stored in the food that the boy ate this morning is transferred to (does work) to the bike's pedals and energy as he applies (does work) to the bike's pedals and energy (heat) as his body begins to get warmer.  The bike itself then has energy. The force of the between the tires and the ground the energy.
transformations?	motion intoenergy (heat) and intoenergy to the description of energy to the description o
	Listening to a Podcast: The energy stored in the battery is transferred to energy when the device recording play and to energy as the device gets warm.

D. when a force is used to move an object through a distance

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

## ENERGY FORMS & TRANSFORMATIONS: SUM IT UP!

1.	Match	each	word	with	its	correct	definition	by	writing	the	letter	on	the	line.
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 energy	A. the standard unit for measuring the amount of energy something has
 work	B. how much matter there is in something

\_\_\_\_\_\_ : depends on an object's mass and position (height)

\_\_\_\_\_: depends on an object's mass and speed

\_\_\_\_\_joule C. where an object is relative to a point of reference

3. Write MECHANICAL, POTENTIAL, or KINETIC on the line next to each description below:

\_\_ : depends on an object's motion (speed) and position (height)

\_\_\_\_\_ mass E. the ability to do work

. position

\_\_\_\_\_ mass E. the ability to do work

2. Write "PE" next to the types of potential energy and "KE" next to the types of kinetic energy.

\_\_\_\_ gravitational \_\_\_\_ sound

\_\_\_\_\_ chemical \_\_\_\_ nuclear

\_\_\_\_\_ radiant \_\_\_\_\_ thermal

\_\_\_\_\_ elastic \_\_\_\_ electrical

- 4. Complete each sentence below by circling the correct word.
- O If two objects of different masses are about to be dropped from the same height, the heavier one has (GREATER / LESS) gravitational potential energy.
- O If two marbles are rolled down a ramp from the same height toward a container, the (LIGHTER / HEAVIER) marble will move the container farther because it has more (POTENTIAL / KINETIC) energy as it reaches the bottom of the ramp.
- O If one water balloon is held I meter above the ground and another water balloon of the same size is held 3 meters above the ground, the (HIGHER / LOWER) balloon has the greater amount of gravitational potential energy. When the balloons are dropped, the (HIGHER / LOWER) balloon will hit the ground with more force because it will have (MORE / LESS) kinetic energy.
- 5. Choose the correct energy transformation sequence from the word bank for the action happening in each example below. Write the letter on the line.
- A. Gravitational Potential  $\rightarrow$  Sound  $\rightarrow$  Thermal
- B. Chemical Potential  $\rightarrow$  Mechanical  $\rightarrow$  Elastic Potential  $\rightarrow$  Gravitational
- C. Electrical  $\rightarrow$  Sound  $\rightarrow$  Thermal  $\rightarrow$  Radiant
- D. Chemical Potential  $\rightarrow$  Radiant  $\rightarrow$  Thermal





How are you feeling about the basics of Energy Forms and Transformations? Circle one:

