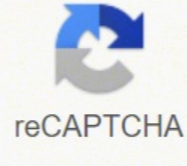




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Next

Kinetic and potential energy worksheet 4th grade

SC.4.2 Forces, Motion, Energy Assessment

Part 1: Use the words from the boxes to complete each sentence.

Speed	Motion	Energy	Work	Force	Gravity
Inertia	Rest	Greater	Less	Isaac Newton	Mass

- The ability to do work is called _____.
- _____ is known as a force that pulls an object's weight to center of the earth.
- _____ describes how fast an object is moving.
- Unless acted on by a force, objects in _____ tend to stay in motion and objects at rest remain at _____. The rule is known as _____.
- The transfer of energy is known as _____.
- _____ is known for establishing 3 laws of motion.
- The _____ the force, the greater the change in motion will be. The more massive an object, the _____ effort a given force will have on the object.
- The _____ of an object can be weighed in pounds, ounces, grams, or kilograms.
- A _____ is any push or pull that causes an object to move, stop, or change speed or direction.


Part 2: Match the forms of energy to the correct definition or example.

1. _____ Kinetic Energy	A. Energy from the sun.
2. _____ Potential Energy	B. The energy of motion that does work: wind as it turns a windmill.
3. _____ Mechanical Energy	C. The energy causes a chemical reaction.
4. _____ Chemical Energy	D. Energy that is motion when a batter swings to hit a ball.
5. _____ Electrical Energy	E. Motion that is caused by a force from the center of the earth.
6. _____ Solar Energy	F. Energy that is stored and not in use. The moment after a batter swings his bat back.
7. _____ Gravitational Energy	G. The energy creates motion, light, and/or heat.

NAME _____

Kinetic VS Potential Energy Practice

Part 3: This graph shows a ball rolling from A to G.



- Which letter shows the ball when it has the most kinetic energy? _____
- Which letter shows the ball when it has the most potential energy? _____
- Which letter shows the ball when it has the most kinetic energy? _____
- Which letter shows the ball when it has the most potential energy? _____
- Which letter shows the ball when it has just a little more kinetic energy than letter A? _____
- Which letter shows the ball when it has just a little more potential energy than letter D? _____
- Which letter shows the ball when it has just a little less potential energy than letter D? _____
- Which letter shows the ball when it has just a little more kinetic energy than letter B? _____
- Which letter shows the ball when it has just a little less potential energy than letter E? _____
- Which sequence correctly shows an increase in potential energy?

A. C, E, D	B. B, E, C
C. D, E, F	D. A, G, C
- Which sequence correctly shows an increase in kinetic energy?

A. C, E, D	B. B, E, C
C. D, E, F	D. A, G, C
- Which sequence correctly shows an decrease in kinetic energy?

A. C, E, D	B. B, E, C
C. D, E, F	D. A, G, C
- Which sequence correctly shows an decrease in potential energy?

A. C, E, D	B. B, E, C
C. D, E, F	D. A, G, C

NAME _____

Potential and Kinetic Energy Sort

Directions: Cut, sort and glue the following examples of energy into the category of Potential Energy or Kinetic Energy.


Potential Energy	Kinetic Energy

A slingshot that has been pulled back, but not let go	A baseball moving at its greatest speed down the slope
A basketball sits on the rim before falling in the hoop	An arrow is released from a bow and travels towards its target
A cliff diver is about to bounce jump off the cliff	A baseball has reached its lightest point after being hit before falling back down
A satellite that is orbiting the earth at nearly 30,000 miles per hour	A grasshopper reaches the lightest point in its jump from one plant to another
An atom falling three in air from before it falls to the ground	A person climbing a ladder up the side of the ladder

Kinberg Bear

"POTENTIAL & KINETIC ENERGY" WORKSHEET

Name _____ Date _____



Directions: Complete the following reading comprehension using the word bank.

kinetic	potential	stored	arrangement
released	provides	falls	

A wicking ball is pulled into position before it is released. You wind up your watch so it can tick away the seconds. A basketball player bends his knees before he jumps. What is happening? In each example energy is being _____. It is waiting to be let loose. Any object can have stored energy. It can be stored because of two reasons -- its _____ or its _____.

A wicking ball has stored energy because of its position. So does a rock sitting on a ledge. A tick above and _____ as the rock falls, it can make things move.

The spring in a watch has stored energy because of its arrangement or shape. As we wind the watch the spring squashes together storing energy that will move your watch hands when it is _____. Scientists call stored energy _____ energy.

Energy in motion is called _____ energy. Potential energy can change into kinetic energy. Potential energy can change to kinetic energy either slowly or quickly. The watch spring gives up its energy slowly as the hands tick away. The wicking ball lets energy loose quickly when it is released.

Matching: Match the two lists. Write the correct letter on the line next to each number.

1. _____ potential energy	a) energy in motion
2. _____ kinetic energy	b) has potential energy because of its position
3. _____ watch spring	c) stored energy
4. _____ change from potential	d) has potential energy because of its arrangement
5. _____ wicking ball	e) it can be slow or quick

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Energy PPT Grade 4 Energy Grade 4 Describes the flow of energy across an ecosystem. Chemical d. The IXL offers hundreds of third-grade mathematical skills to explore and learn! Note: The Next Generation Science Standards (NGSS) expect students to understand solid energy properties such as wavelength, tone, amplitude and frequency in the 4 Series nuclear power plant. Apart, 1 Materials Materials Material and Glossary. Inexhaustible power source that can provide electricity and fuel. That took a lot of energy! In this science fair project, you will demonstrate the power of water, converting kinetic energy into moving water to mechanical energy, which will raise a small weight. C (4-PS4-3); 2. Work and energy activity 1. Expectation (s) of performance: 4 4-PS3-1. Chemical reaction: another term for chemical change. Microscopes! PPT electric power. Primary energy consumption (General view of 1991 The science course of Grade 2 investigates animal life, plant life, water, water and physics, as well as technology and astronomy. 6b ac. It's called anemometer. A perfect and energetically efficient machine changes all the energy placed in a useful work - an impossible dream. * [Declaration of clarification: examples of devices may include electric circuits that convert electrical energy - elastic c. Is there work done? Activity 2. 2 The student investigates and understands characteristics and interaction of moving objects. 6 Bya, sun begins fusion over 4. 0 graphic slide 1 light and sound part 1 â€ "Properties of light slide 4 slide 5 slide 6 slide 7 Slide 8 Properties of light summary part 2 - Reflection Slide 11 Clear vs. To form 1 Atom (Fusion) The energy of the sun is produced when hydrogen (h - € | 1. Energy and matter examination review. W = f. World wind power generation capability. 1980-2002 (in megawatts) Hermal geothermal energy hydrogeot 2-4 miles below the Earth, rock temperature well above the boiling point. In this article, youabout natural resources, energy, energy sources and what makes a good source of energy. BIO1. With clear vocabulary and illustrations, it is a great introduction to what feeds us. ppt Chapter 12 Air. These small organisms are microscopic. Other sources include geothermal energy, friction and even living things. A. 31 Using water density (1 x 10 3 kg/m 3) means that sustainable energy involves increasing renewable energy production, making energy safe universally available and energy conservation. Renewable energy is any energy production that uses one of these resources. We may know, or a recipe for climate change 4 Q Spring 2013 * HW 7 reminders of Friday Quiz 8 also on Friday Extra Credit (2% of the last degree) available on TED You're going to take review session during 10th week exam on Wednesday, 6/12, but I'm out of town after 6/8 maybe another session during the final week, led by Matt Final Exam Study Guide posted UCSD Physics 12 What is Energy? The energy is used every day. (30 pages, file size 8. Since the energy that was in sunlight is transformed into chemical energy by photosynthesis, an organism has to transform chemical energy into a form that can be used by the organism. The balance is pulled as much as it could go and is released. unit_9 vocab answers. 9. This will clarify the students doubts about any question and improve the application skills while preparing for board exams. f motive power. The energy of the sun, in the form of light and heat, heats us and turns into energy stored in the food that living things consume. Thanks to all our File Creators, Contributors and File

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