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Kinetic vs potential energy worksheet answers free printable worksheet

KINETIC AND POTENTIAL ENERGY WORKSHEET

Determine whether the objects in the following problems have Kinetic or Potential Energy. Use the correct formula to calculate the answer.

K.E. =

 You serve a volleyball with a mass of 2.1 kg. The ball leaves your hand with a speed of 30 m/s. The ball has ______ energy. Calculate it.

P.E. =

 A baby carriage is sitting at the top of a hill that is 21 m high. The carriage with the baby weighs 12 N. The carriage has ______ energy. Calculate it.

 A car is traveling with a velocity of 40 m/s and has a mass of 1120 kg. The car has ______ energy. Calculate it.

 A cinder block is sitting on a platform 20 m high. It weighs 79 N. The block has ______ energy. Calculate it.

 There is a bell at the top of a tower that is 45 m high. The bell weighs 190 N. The bell has ______ energy. Calculate it.

 A roller coaster is at the top of a 72 m hill and weighs 966 N. The coaster (at this moment) has ______ energy. Calculate it.

NAME



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Part 1: This graph shows a ball rolling from A to G.

Kinetic VS Potential Energy Practice



11. Which sequence correctly shows a resulting increase in potential energy?

A	C. D. E. F	B.,	B.F.E.C
\mathbf{C}_{i}	D, E, B, F	D.	A. G. F. C
3.2	Which sequence correctly show	era e	esulting increase in kinetic energy?
\mathbf{A}_{i}	E, F, B, G	8.	B, F, E, C
с.	D, E, B, F	D.	A.B.C.D
13,	Which sequence correctly show	esi.	esulting decrease in kinetic energy?
\mathbf{A}_{i}	E.F.B.G	-B.	B.F.B.C
с.	D, 8, F, G	D.	A, G, F, C
14.	Which requence correctly show	is a r	esulting decrease in potential energy?
$ \mathcal{M} $	E.F.B.G	8.	A. B. C. D
С.	D, E, B, F	D.	A, G, F, C



Apple on a Desk

Mrs. Canales pointed to an apple sitting on her desk.

She asked her students to describe any f on the apple. This is what some of her st dents said.	u-
Archie: "The only force acting on the apple is air pressure."	

- "There is one force acting on the apple. Gravity is the force that pulls on Sam: the apple."
- Soledad: "There are two forces: the desk pushes up on the apple and gravity pulls downward on the apple."
- Misha: "There are many forces acting on the apple; but, it is the holding force in the apple that keeps it on the desk."
- "There are no forces acting on the apple because the desk stops any forces Tess: from acting on it."

Which student do you most agree with?

Explain your thinking. What rule or reasoning did you use to decide if there were any forces acting on the apple?



More advanced definition: The ability to do work. (Answer: In the stretching or compression of the object). kinetic energy: The energy of moving objects. Gravity is the force that pulls things down to Earth. How do you use them? The associated activity, Making Moon Craters, also provides opportunities to discuss and review key concepts with a fun and hands-on demonstration. Electricity powers light bulbs so we can continue to study, work and have fun after dark. Energy is in use everywhere and comes in many different forms. Last modified: May 27, 2022 (Answer: Gravitational energy). A PowerPoint® presentation and post-quiz are provided. The presentation is animated, so clicking brings up the next image, text or slide. The faster an object moves, the more kinetic energy it has. (Continue by showing the presentation and delivering the content in the Lesson Background section.) Teach the lesson using the 15-slide PowerPoint file, Kinetic and Potential Presentation, along with the notes included below each slide. For example, the chemical energy in wood (biomass) can be transferred to different forms of energy (light, heat, sound). However, these contents do not necessarily represent the policies of the National Science Foundation, and you should not assume endorsement by the federal government. They learn that energy can be neither created nor destroyed and that relationships exist between a moving object's mass and velocity. What kind of energy do they use? They identify everyday examples of these energy types, as well as the mechanism of corresponding energy transfers. © 2014 by Regents of these energy types, as well as the mechanism of corresponding energy transfers. RESOURCE GK-12 Program, College of Engineering, University of California Davis The contents of this digital library curriculum were developed by the Renewable Energy Systems Opportunity for Unified Research Collaboration (RESOURCE) project in the College of Engineering, University of California Davis The contents of this digital library curriculum were developed by the Renewable Energy Systems Opportunity for Unified Research Collaboration (RESOURCE) project in the College of Engineering under National Science Foundation GK-12 grant no. Ask students what this tells us kinetic energy depends on? potential energy: Energy that is stored and can be used when needed. Why? (Slide 4) Show the images of the blue car and truck. After students are done, give them time to share their answers with the class. Heat. Remind students that energy can be converted from one form to another. This engineering curriculum aligns to Next Generation Science Standards (NGSS). Relate daily life experiences to different types of energy. For example, at slides 7 and 8 have students answer to fill in the blanks (before the answers are shown) to demonstrate their understanding. DGE 0948021. Then conclude by administering the post-quiz. (Grades 6 -8) Do you agree with this alignment? In the previous lesson, we learned that energy is the ability to make things happen. Watch this activity on YouTube chemical bonds of molecules. Require students to use the energy terminology learned in the chemical bonds of molecules. energy: Energy that is stored in an object's temperature. (Answer: the velocity of an object) (Slide 6) Show students the equation for the kinetic energy. (Answer: Elastic energy) What other examples of elastic energy of a non-rotating solid object: KE = (1/2) x mass x velocity^2. Anything in motion has kinetic energy of a non-rotating solid object: KE = (1/2) x mass x velocity^2. students the photo of the tea kettle on a stove burner. Post-Introduction Assessment Discussion Questions: Use class discussions and student writing assignments to evaluate student knowledge. (Answer: Thermal energy) What other examples of the wood and little girl eating a peach. (Answer: In the temperature of the object). By watching the potential-to-kinetic energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and mass of an object has on the overall energy transfer and measuring the resulting impact craters, students directly see the effect that the height and measuring the resulting impact craters, students directly see the effect that the height and measuring the resulting impact craters, students directly see the effect that the height and measuring the resulting impact craters, students directly see the effect that the height and measuring the resulting impact craters, students directly see the effect that the height and measuring the resulting impact craters directly see the effect that the height and measuring the resulting impact craters directly see the effect that the height and measures directly see the effect that the height and measures directly see the effect that the height and m different forms of energy (and energy transfers) so common in our everyday lives, as well as a basis for comprehending more advanced concepts in engineering, physics, renewable energy, electrical generation and other fields. (Answer: the mass of an object) (Slide 5) Now show students the images of the blue car and the racing car. (Answer: 2) times) (Slide 8) Ask students, how much more kinetic energy does the racing car have compared to the blue car? Also, you may be active during recess or during gym because you eat meals to maintain your physical strength; in this case, the chemical energy stored in food (in the form of chemical bonds) is converted into kinetic energy (perhaps running around). Does anyone know what this potential energy is called? Thanks for your feedback! Suggest an alignment not listed above Kinetic and Potential Presentation (pdf) Kinetic and Potential Post-Quiz (docx) Kinetic and Potential Post-Quiz Answer Key (pdf) Visit [www.teachengineering.org/lessons/view/ucd energy lesson02] to print or download. Thanks for your feedback! Click to view other curriculum aligned to this Performance Expectation This lesson focuses on the following Three Dimensional Learning aspects of NGSS: Science & Engineering. Practices Disciplinary Core Ideas Crosscutting Concepts Science knowledge is based upon logical and conceptual connections between evidence and explanations. Alignment agreement: Thanks for your feedback! Use mathematical representations to describe and/or support scientific conclusions and design solutions. Alignment agreement: Thanks for your feedback! Use mathematical representations to describe and/or support scientific conclusions and design solutions. Alignment agreement: Thanks for your feedback! Use mathematical representations to describe and/or support scientific conclusions and design solutions. your feedback!When the motion energy of an object changes, there is inevitably some other change in energy at the same time.Alignment agreement: Thanks for your feedback! Energy may take different forms (e.g. energy in fields, thermal energy, energy of motion).Alignment agreement: Thanks for your feedback! Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object. energy terms learned in the lesson. (Slide 3) Knowing that kinetic energy of motion, ask students: What does kinetic energy depend on? Post-Ouiz: In addition, administer the Kinetic energy of an object, as well as their ability to identify examples of various types of energy. Students learn the kinetic and potential energy equations, make predictions, and collect and graph data. Can you think of some more examples of energy conversion from one form to another? Further, the concept that energy can be neither created nor destroyed is reinforced, as students see the pervasiveness of energy transfer among its many different forms. After this lesson, students should be able to: Explain the relationship between a moving object's kinetic energy and its mass and velocity. Pre-Lesson Assessment Definition Review: To verify students' understanding of concepts learned in the previous lesson, ask them to define the terms listed on slide 2 of the Kinetic and Potential Presentation: energy, kinetic energy, but what ways can it be stored? (Slide 10) Show students the photos of the roller coaster, downhill mountain biking and an elevated water tank. Ask students, which one has more kinetic energy? Ask students, where is the potential energy stored? Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object. For students to get a better sense of how KE varies with mass and velocity, it is helpful to graph the relationship on the classroom board or show students a simulation to demonstrate the relationship, such as The Ramp from PHET Interactive Simulations at . (Slide 15) Using the writing prompt on this slide (and description in the Assessment section), assign students to write about three fictional superpowers, and then read them to the class. It takes energy to power vehicles, but the same task may be performed by energy in different forms (gasoline, lithium-ion batteries, etc.), as designed by engineers to meet specific functional requirements. Students makes sense of kinetic and thermal



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energy. Ask students, where is the potential energy stored for these examples? (Slide 2) As a class, verify students' understanding of concepts learned in the previous lesson by asking them to define the following terms: energy, kinetic energy, potential energy transfer. Listen to student responses. (Slide 14) Make the final point that even though we've talked about many forms of energy, they are all different forms of the same thing. Energy can be stored in chemicals (food, batteries), height (gravitational), elastic stretching, etc. elastic energy: Energy that is stored in the stretching or compression of objects. Lesson Summard Assessment Superpowers? Now ask students which one has more your energy? On a substrational energy? So ask students, which one has more superpowers? Now ask students what type of potential energy is stored? (Answer: In the object's height). Throughout the Kinetic and Potential energy allows for us compared to the car? It can be stored and then employed to do things for us. The presentation contains review questions and activities that ask students to use their new energy from the sun, is our fundamental source of energy to support our lives. Identify different forms of kinetic and potential energy is present and mattress. Given that both vehicles are traveling at the same speed (Listen to student responses, guiding the mose sy ask as a way to mode all aver of four from different forms, a weight denergy is present and in gravitational energy is present and in gravitational energy is present and in the previous lesson by asking them to asy that the truck does). And food, grown with the energy from the sun, is our fundamental source of energy to support our lives. Identifierent forms of kinetic and potential energy is present and in gravitational energy is present and informs of the energy is present and in gravitational energy is present and inform from different forms of kinetic and potential energy is present on a superpowers? Now as students what the revelue as the energy come the sa

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