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Section 2 conservation of energy worksheet answers

Unit Conversion Glencoe Worksheet Answers P16-18

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Unit Conversion Glencoe Worksheet Answers P16-18

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17 THERMOCHEMISTRY

SECTION 17.1 THE FLOW OF ENERGY ↔ HEAT AND WORK (pages 500–516)

This section explains the relationship between energy and heat and distinguishes between heat capacity and specific heat.

Energy Transformations (page 505)

- What form of energy transformation is associated with the heat transfer that warms the water in a bathtub? Thermodynamics
- When the sun of energy is converted to a substance, what is the work done? Heat is done when a force is used to move an object.
- Define the term heat as each sentence that is true about energy.
 - Energy is the capacity for doing work or supplying heat.
 - Energy is done not only because of its effects.
 - Heat is energy that transfers from one object to another because they are at the same temperature.
 - Heat is energy that transfers from one object to another because they are at the same temperature.
- Define the term heat as each sentence that is true about heat.
 - Heat is the energy that is transferred from one object to another because they are at the same temperature.
 - Heat is the energy that is transferred from one object to another because they are at the same temperature.
 - Heat is energy that transfers from one object to another because they are at the same temperature.
 - Heat is energy that transfers from one object to another because they are at the same temperature.

Endothermic and Exothermic Processes (page 506)

- What can be considered the "system" and what are the "surroundings" when studying a substance chemically undergoing a reaction? What part remains when both react and products?

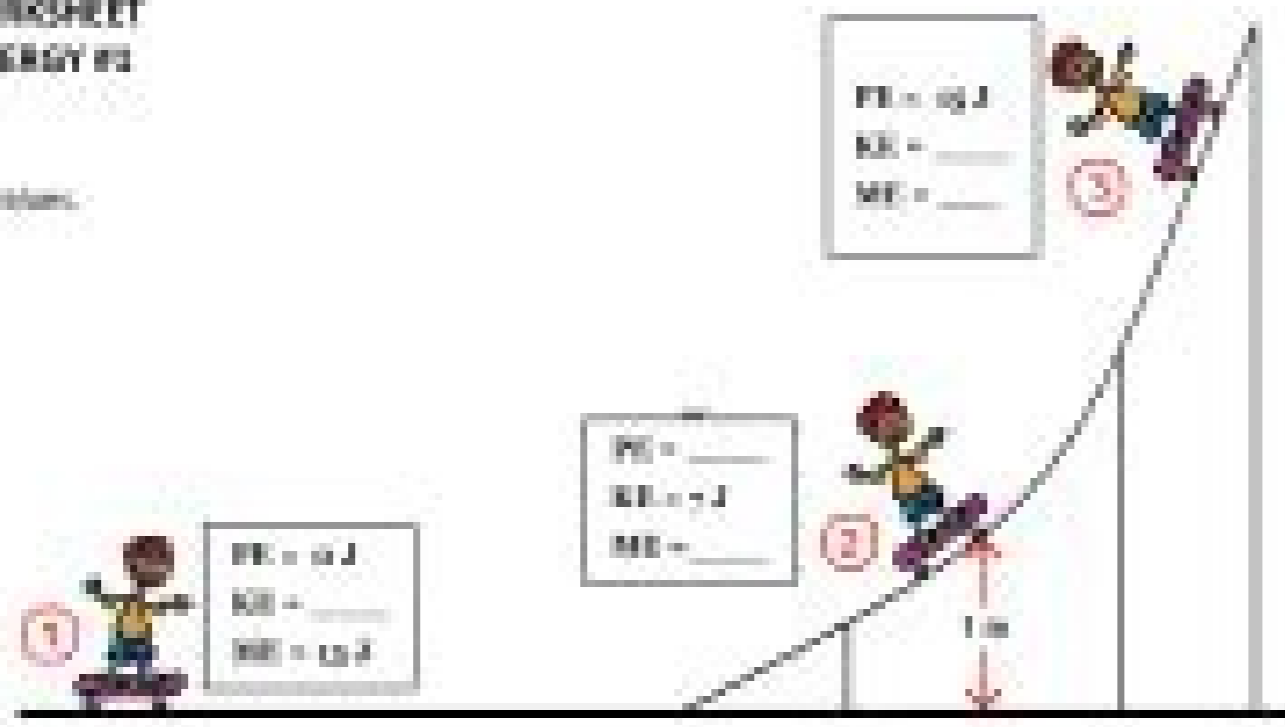
System: The change of chemical, heat is considered the system.

Surroundings: Everything but the system of chemicals in the surroundings, that gets heat, cooling, the amount of energy of the system.

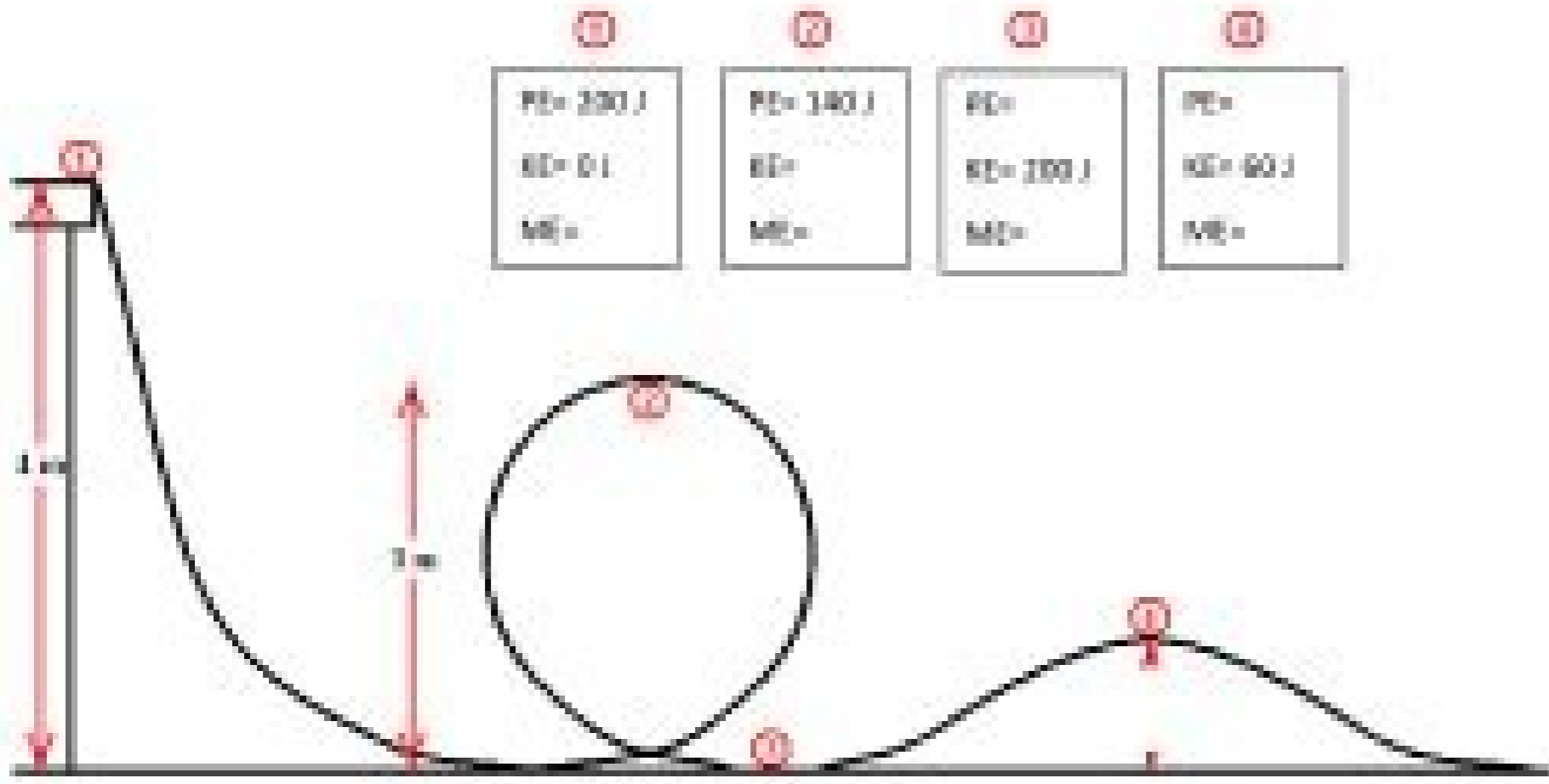
Chapter 17 Thermodynamics 181

PHYSICAL SCIENCE WORKSHEET
CONSERVATION OF ENERGY #3

1. Fill in the missing values.



2. Fill in the missing values.



- A 1.8 kg book has been dropped from the top of this football stadium. Its speed is 6.8 m/s when it is 3.0 meters above the ground. What is its mechanical energy?
- A 20 kg child on a swing is traveling at 4.2 m/s. What is his potential energy if he has 85% of mechanical energy?
- Identical twins Rick and Chris are painting a house. Rick is standing on the scaffolding 5 meters above the ground. Chris is standing on the scaffolding 8 meters above Pat. Who has more potential energy? Explain.

Section 2 conservation of energy worksheet answers page 21.

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The following diagram will help you visualize this calculation. When the force resulting from the due to the extension of the spring, the potential energy decreases with the increase of the speed. Halfway up the hill. Halfway up the hill. Halfway up the hill. Halfway up the hill, PE is still Mgh. Let's calculate the height. Sally weighs 40 kg and her sled 12 kg. The gravitational potential energy lost when the ball drops from 30m to 10m Ä equal to the kinetic energy gained.Ä The gravitational potential energy variation can be found using the difference in mgh.Ä So 400 Joules are converted from the gravitational potential to the kinetic energy, allowing us to resolve by the velocity, v. If Varsity Tutors intervenes in response to a violation notice, do Ä a bona fide attempt to contact the party that made the content available through the most recent email address, if any, provided by that party to Varsity Tutors. In this case, the boulder begins with zero kinetic energy and ends with kinetic and potential energy. A rock is dropped from a certain height and dropped onto the ground. Hanley Rd, Suite 300 St. Louis, MO 63105 Or fill in the following form: Possible answers: Double the height from which the rock Ä fell Reduce by 75% the height from which the rock Ä fell Quadruple the height from which the rock Ä fell Reduce by 25% the height from which the rock Ä fell Quadruple the height from which the rock Ä fell Explanation: We can compare height and speed comparing the equations for potential energy and kinetics. From the moment the neighbor starts looking, to the moment they both stop, who has dissipated more heat? In the form of friction? With the help of the community we can continue to improve our educational resources. To send a notification, follow these steps: You include nU nU :otnoc ous rep eriga da atazirtoua anosrep anu id o erotua'd ottirid led eralott led acinortlele ö acisif amrif :euges the copyright claimed to have been infringed; A description of the nature and exact location of the content claiming to infringe copyright, in sufficient detail to enable varsity tutors to find and positively identify such content; For example, we require a link to the specific question (not just the name of the question) that contains the content and a description of what specific portion of the question – an image, a link, the text, etc. Ä "Your complaint refers to: Your name, address, telephone number and email address; and a statement by you: a) that you have a bona fide belief that use of the Content purporting to infringe copyright is not authorized by law or by the copyright owner or the owner's agent; b) that all information contained in your Notice of Infringement is accurate and (c) under penalty of perjury, that you are the copyright owner or a person authorized to act on their behalf. If Sally had gone earlier. Sam said they could have collided. At point 1, there is no potential energy, using point 1 as our "terrain/reference", so all the energy in the system is kinetic energy. In order for the rock velocity to be doubled before impact, which of the following is needed? Choice 1 is correct because initially, all the mechanical energy in the stone was potential energy and no energy was kinetic energy: Äc ä ~ = Ke + PE.Ä PE is Äc ä ~ ÄstitedÄc ä ~ in the stone system by rolling the Up Hill stone. Obviously, it takes half as much energy to roll the stone halfway up the hill, compared to rolling at the top. At the top of the hill, all the PE will have been converted to Ke , given by the formula is Since the PE was Ä1/2 mgh when rolling the stone in the middle of the hill, it is the same that pulls down the hill. View Physical and chemical foundations of biological systems Tutor Richard Certified Tutor University of South Florida-Main Campus, Campus, of Science, Biology, General. If you've found an issue with this question, please let us know. As the angle gets less and less, the normal force is going to get larger. Possible Answers: Explanation: First solve for the potential energy of the pendulum at the height of 2.4m. Once stopped, all of the kinetic energy will have been dissipated. Each term under the square root has units of , which will ultimately give us units of , which is what we want. The velocity of the rock is measured upon impact with the ground. An empty mining cart has a mass of Ä and is traveling down a track thatÄ has a slope of Ä to the horizontal. When they arrive, they climb up the hill using boots. Halfway up the 50-meter hill, Sally slips and rolls back down to the bottom. View MCAT Chemical and Physical Foundations of Biological Systems Tutors Wasifuddin Certified Tutor University of Houston-Clear Lake, Bachelor of Science, Biology, General. What is its velocity at the bottommost point in its path? PE = mgh PE = (405kg)(10m/s2)(2.4m) = 9720J This must be equal to the maximum kinetic energy of the object. Possible Answers: Explanation: Momentum is always conserved in a system, when not experiencing external forces. This lack of conservation is due to the conversion of some of the kinetic energy to heat and sound. If you believe that content available by means of the Website (as defined in our Terms of Service) infringes one or more of your copyrights, please notify us by providing a written notice (cÄÄÄInfringement NoticeÄÄÄÄ) containing the information described below to the designated agent listed below. Possible Answers: Correct answer: Explanation: We need the equation for conservation of energy for this problem: We can eliminate final potential energy if we set the final height to be zer. The kinetic energy decreases as the heat energy increases, resulting in a non-constant temperature. Sam continues climbing, and eventually Sally joins el ettut omaibba ehc aro :ehc erid omaissop .otnatreP ?arev 'Ä itneuges ied elauq ,asescid ni alotor ertnem ÄÄ.h azzetta id anilloc anu a amic ni edeis is m assam al id arteip anU . 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At the base of a nearby hill, a neighbor views Sally and Sam getting off the hill. By replacing our equations for each variable, we get: rearranging the final speed we get: if you get this formula and you are not sure of your work, just check your units. From the moment the neighbor began to watch we can calculate the kinetic energy. Send your complaint to our appointed agent to the address: Charles Cohn Varsity Tutors LLC 101 S. Possible answers: Sam, because it has more motion Sam, because it has more kinetic energy dispense equal amounts because the friction coefficients are the themselves for both sally, because he has more kinetic energy sally, because he has less motocrat correct answer: Sally explanation: Sally has greater kinetic energy in this example compared to Sam. Sam.

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