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chapter 15 energy section 15 1 energy and its forms pages 446 452 this section describes how energy and work are related kinetic energy and potential energy are defined and examples are shown for calculating these forms of energy examples of various types of energy are discussed reading strategy page 446 energy is the ability to do work or produce heat 2 the law of conservation of energy states that energy can be created and destroyed 3 chemical potential energy is energy stored in a substance because of its composition 4 heat is a form of energy that flows from a warmer object to a cooler object prentice hall physical science concepts in action chapter 15 vocabulary learn with flashcards games and more for free similarly chemical energy is the energy stored in molecular bonds in a chemical reaction bonds are broken and formed breaking bonds requires energy making bonds produces energy types of energy include radiant thermal kinetic and potential energy chapter 15 energy section 15 2 energy conversion and conservation pages 453 459 this section describes how energy is converted from one form to another and presents the law of conservation of energy reading strategy page 453 physical science chapter 15 energy pre assessment quiz for 9th grade students find other quizzes for physics and more on quizzz for free chapter 15 energy summary 15 1 energy and its forms work is a transfer of energy energy is the ability to do work the kinetic energy of any moving object depends upon its mass and speed the energy of motion is called kinetic energy energy click the card to flip definition 1 21 physics the capacity of a physical system to do work click the card to flip flashcards learn test match key terms chapter 15 learn with flashcards games and more for free chapter 15 thermodynamics all with video solutions problems exercises section 15 1 the first law of thermodynamics 00 57 free problem 1 what is the change in internal energy of a car if you put 12 0 gal of gasoline into its tank the energy content of gasoline is 1 3 times  $10^8$  textrm j gal 1 3  $10^8$  j gal electrical energy and energy can be conserved by turning off lights when they are not in use study with quizlet and memorize flashcards containing terms like work is a transfer of what is transferred by a force moving an object through a distance the energy of motion is called and more preview chapter 15 energy learn with flashcards games and more for free the potential energy of a substance depends on its composition the type of atoms in the substance the number and type of chemical bonds joining the atoms and the particular way the atoms are arranged energy can change from one figure 15 2 form to another but is always conserved what are the 2 main types of energy section 15 1 energy and its forms energy is the ability to do work or supply heat when work is done on an object the energy is transferred to that object both work and energy are measured in joules j energy many forms of energy can be classified into two general types kinetic energy and potential energy this section describes how energy and work are related it defines kinetic energy and potential energy and gives examples for calculating these forms of energy we hear the same about heat transfer to electrical energy in large power stations whether they are coal oil natural gas or nuclear powered why is that the case is the inefficiency caused by design problems that could be solved with better engineering and superior materials potential energy that depends upon an object 39 s height above a reference point elastic potential energy the potential energy of an object that is stretched or compressed mechanical energy the energy associated with the motion and position of everyday objects thermal energy thermal energy the motion of microscopic particles in matter partly determines the amount of within it energy conservation as a pole vaulter springs higher into the air her kinetic energy decreases as her gravitational potential energy increases can an object have both kinetic energy and potential energy at the same time a 60 0kg person walks from the ground to the roof of a 74 8m tall building how much gravitational potential energy does she have video answers for all textbook questions of chapter 15 energy and chemical change chemistry matter and change by numerade 15 section 15 1 energy in your textbook read5 about the nature of energy in the space at the left write true if the statement is true if the statement is false change the italicized word or phrase to make it true 1 energy is the ability to do work or produce heat

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