

Name _____ Class _____ Date _____

Chapter 15 Energy

Section 15.1 Energy and Its Forms

(pages 446–452)

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. It also discusses examples of various types of energy.

Reading Strategy (page 446)

Building Vocabulary As you read, complete the concept map with vocabulary terms and definitions from this section. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.



Energy and Work (page 447)

1. What is energy? Energy is the ability to do work.
2. When work is done on an object, _____ is transferred to that object. Circle the correct answer.
 energy heat height
3. Circle the letter of each sentence that is true about work and energy.
 a. Energy in food is converted into muscle movement.
 b. Both work and energy are usually measured in joules.
 c. One joule equals one meter per newton.

Kinetic Energy (pages 447–448)

4. The energy of motion is called kinetic energy.
5. Is the following sentence true or false? You can determine the kinetic energy of an object if you know its mass and its volume. false

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Section 15 1 Energy And

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) Building Vocabulary As you read, complete the concept map

Section 15.1 Energy and Its Forms - Applied Physics

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Chapter 15 Energy Section 15.1 Energy and Its Forms

15.1.1Describe the relationship between work and energy. 15.1.2Relate kinetic energy to mass and speed and calculate these quantities. 15.1.3Analyze how potential energy is related to an object's position and give examples of gravitational and elastic potential energy.

Section 15.1 15.1 Energy and Its Forms

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Chapter 15: Energy and Chemical Change Section 1: Energy Energy: the ability to do work or produce heat Exists in 2 basic forms: o Potential energy Energy due to the composition or position of an object o Kinetic energy Energy of motion As temperature increases, the motion of particles increases Law of conservation of energy: states that in any chemical reaction or physical process, energy can ...

Chapter 15: Energy and Chemical Change Section 1: Energy

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Baubles - Duration: 15:13. Billettes Baubles Eco Alternatives Recommended for you

Section 15.1 - Kinetic Energy

Section 15-1 The Nature of Energy (cont.) The law of conservation of energy states that in any chemical reaction or physical process, energy can be converted from one form to another, but it is neither created nor destroyed—also known as the first law of thermodynamics. 7.

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Chapter 15 Energy Section 15.1 Energy and Its Forms

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Section 15 1 Energy And Its Forms Pages 446 452 Answers

Section 15.1 Energy and Its Forms. After monitoring the build up of snow, scientists predict where an avalanche is about to occur, and use well-timed artillery shots to make the avalanche happen when the released energy cannot harm anyone. It takes energy to evaporate water, then have it condense in the atmosphere, freeze, and fall as snow. The accumulation of snow on the side of a mountain ...

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Section 15.1 Energy and Its Forms An object at ground level has a gravitational

potential energy of zero, no matter how great its mass. At a height of 1 meter, a 1-kilogram object has potential energy of: PE 1 kg 9.8 m/s² 1 m 9.8 J Doubling either the mass or the height of the object will double its gravitational potential energy. Thus, mass and height have an equal impact on gravitational ...

Section 15.1 Energy and Its Forms

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Section 15.3 15.3 Energy Resources

15.1 Energy and Its Forms Energy is the ability to do work. Work is actually a transfer of energy. When work is done to an object, energy is transferred to that object. Energy is measured in joules (J) - just like work. Energy can take several different forms. Mechanical Energy is the sum of potential and kinetic energy.

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