

## Chapter 17 Mechanical Waves And Sound Study Guide

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The Mechanical Waves and Sound chapter of this Prentice Hall Physical Science Companion Course helps students learn the essential physical science lessons of mechanical waves and sound.

Chapter 17 Mechanical Waves And

Chapter 17 Mechanical Waves and Sound Section 17.3 Behavior of Waves (pages 508–512) This section describes different interactions that can occur when a mechanical wave encounters an obstacle, a change in medium, or another wave. These interactions include reflection, refraction, diffraction, and interference. Reading Strategy (page 508)

Chapter 17 Mechanical Waves and Sound Section 17.1 ...

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Standing waves Reflection (page 508) 1. Is the following sentence true or false? Reflection occurs when a wave bounces off a surface that it cannot pass through. 2. Circle the letter of the results that occur when a wave reflects off a fixed boundary. a. The reflected wave will be turned upside down. b. The speed of the wave will decrease. c.

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Chapter 17 Mechanical Waves and Sound Section 17.2 Properties of Mechanical Waves (pages 504–507) This section introduces measurable properties used to describe mechanical waves, including frequency, period, wavelength, speed, and amplitude.

Reading Strategy (page 504) Build Vocabulary As you read, write a definition in your own words

Chapter 17 Mechanical Waves and Sound Section 17.2 ...

Chapter 17--Mechanical Waves & Sound. Physical Science; Prentice Hall; Chapter 17 vocabulary. STUDY. PLAY. ... Mechanical Waves and Sound Chapter 17. 37 terms. Chapter 17. OTHER SETS BY THIS CREATOR. 19 terms. Biology--Chapter 15 Theory of Evolution. 32 terms. Biology--Chapter 10 DNA, RNA, & Protein Synthesis.

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P.Sci. Chapter 17 Test ID:A. Do Not Write On This Test. Put all answers on the answer sheet provided. ... A \_\_\_ is the material through which a mechanical wave travels. a. transverse wave b. medium c. longitudinal wave d. wavelength 18. A light wave bends as it passes from the air into water. This is called \_\_\_\_\_

Chapter 17 Mechanical Waves and Sound WordWise

A mechanical wave is created when a source of energy causes a vibration to travel through a medium. What are the three main types of mechanical waves? The three main types of mechanical waves are transverse waves, longitudinal waves, and surface waves.

Section 17.1 17.1 Mechanical Waves

Chapter 17 Mechanical Waves and Sound WordWise Test your knowledge of vocabulary terms from Chapter 17 by completing this crossword puzzle. Physical Science Guided Reading and Study Workbook ...

Chapter 17 Mechanical Waves and Sound Calculating Wave

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Chapter 17 Mechanical Waves and Sound Summary 17.1 Mechanical Waves A mechanical wave is created when a source of energy causes a vibration to travel through a medium. • A mechanical wave is a disturbance in matter that carries energy from one place to another. • The material through which a wave travels is called a medium.

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Chapter 17 Mechanical Waves and Sound. 17.3 Behavior of Waves; 47 Reflection. Reflection occurs when a wave bounces off a surface that it cannot pass through. Reflection does not change the speed or frequency of a wave, but the wave can be flipped upside down. 48 Refraction. Refraction is the bending of a wave as it enters a new medium at an angle.

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the interaction among two or more waves in which displacements combine to produce a wave with a larger displacement:  
destructive interference: the interaction among two or more waves in which displacements combine to produce a wave with a smaller displacement:  
standing wave: a wave that appears to stay in place and does not seem to move through ...

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Chapter 17 Mechanical Waves and Sound Section 17.3 ...

Properties of Sound Waves (pages 514–515) 1. Circle the letter of each sentence that is true about sound. a. Many behaviors of sound can be explained using a few properties. b. Sound waves are compressions and rarefactions that travel through a medium. c. Sound waves usually travel more slowly in solids than in gases.

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500 Chapter 17 FOCUS Objectives 17.1.1 Define mechanical waves and relate waves to energy. 17.1.2 Describe transverse, longitudinal, and surface waves and discuss how they are produced. 17.1.3 Identify examples of transverse and longitudinal waves. 17.1.4 Analyze the motion of a medium as each kind of mechanical wave passes through it. Build Vocabulary

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Calculate the frequency, in Hz, of a wave in a string traveling 1.25 m/s, with a wavelength of 0.50 m. 1 0.25 s 1 Period Wavelength  
Period Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_ Chapter 17 Mechanical Waves and Sound 156 Physical Science Guided Reading and  
Study Workbook Chapter 17

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