

## Chapter 17 Mechanical Waves Sound Test Answers

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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 WordWise Test your knowledge of vocabulary terms from Chapter 17 by completing this A unit used to compare sound intensity levels 5. Occurs when waves overlap 6. Occurs when a wave encounters an object or opening that is close in size

500 Chapter 17 17.1 Mechanical Waves Reading Strategy Previewing Copy the web diagram below. Use Figure 2 to complete the diagram. Then use Figures 3 and 4 to make similar diagrams for longitudinal waves and surface waves.

504 Chapter 17 17.2 Properties of Mechanical Waves W Mechanical Waves and Sound 505 Wavelength Answers of one to five waves per second are reasonable. 2. Answers will depend on student data but should be expressed in units of m/s. 3. The wave frequency had no effect on

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.

radio waves \_\_\_\_ 7. Which of the following is true about sound waves? a. they are mechanical waves c. they are electromagnetic waves . b. they are longitudinal waves d. both A and B are true \_\_\_\_ 8. A wave can make a leaf bob up and down on the water, but it cannot move the leaf toward the shore. This is because waves only transfer . a. matter. c.

Chapter 17 and 18 Test Review Answers Multiple Choice and Completion 1. A long period of rising stock prices is known as a bull market. 2. A major campaign issue in the 1928 election was Prohibition. 3. A major reason for Herbert Hoover's landslide victory in the 1928 election was the prosperity of the 1920s. 4.

Unit 4 Sound and Waves Multiple Choice Identify the choice that best completes the statement or answers the question. \_\_\_\_ 1. The speed of any mechanical wave as it propagates through a medium is dependent mainly on the a. frequency of the wave source b. wavelength c. period of the wave d. type of medium through which the wave travels e

Chapter Test Waves I. Testing Concepts Directions: The \_\_\_\_ is the material through which a mechanical wave travels. 15. How can sound waves with different frequencies be produced by the same guitar string? Assessment. Transparency Activities Waves 43

CHAPTER 11: Vibrations and Waves Answers to Questions 1. The blades in an electric shaver vibrate, approximately in SHM. 17. (a) Similar to the discussion in section 11-9 for spherical waves, as a circular wave expands, can diffract around obstacles. For instance, sound can be heard around a corner, while you cannot throw a ball around a