

Chapter 17 Mechanical Waves and Sound

Section 17.1 Mechanical Waves**(pages 500–503)**

This section explains what mechanical waves are, how they form, and how they travel. Three main types of mechanical waves—transverse, longitudinal, and surface waves—are discussed and examples are given for each type.

Reading Strategy (page 500)

Pre-reading: As you read this section, use Figure 2 on page 500 to complete the web diagram. Then use Figures 3 and 4 to make similar diagrams for longitudinal waves and surface waves on a separate sheet of paper. 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.

**What Are Mechanical Waves? (page 500)**

1. A disturbance in matter that carries energy from one place to another is called a(n) _____.
2. Is the following sentence true or false? Mechanical waves can travel through empty space. _____
3. The material through which a wave travels is called a(n) _____.
4. Is the following sentence true or false? Solids, liquids, and gases all can act as mediums for waves. _____
5. What creates a mechanical wave? _____

Types of Mechanical Waves (pages 501–503)

6. Is the following sentence true or false? The three main types of mechanical waves are water waves, longitudinal waves, and surface waves. _____
7. Circle the letter of the characteristic used to classify a mechanical wave.
 - a. the height of its crest
 - b. the depth of its trough
 - c. the way it travels through a medium
 - d. the type of medium through which it travels

Mechanical Waves Answer Key

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