

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

Section 17 Mechanical Waves

**David Halliday, Jearl Walker, Robert
Resnick**



Section 17 Mechanical Waves:

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Section 17 Mechanical Waves**

In a world inundated with monitors and the cacophony of instant connection, the profound power and emotional resonance of verbal beauty frequently fade in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, located within the lyrical pages of **Section 17 Mechanical Waves**, a interesting function of fictional beauty that impulses with raw emotions, lies an unique journey waiting to be embarked upon. Penned with a virtuoso wordsmith, this enchanting opus courses readers on a mental odyssey, lightly exposing the latent potential and profound impact embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is central themes, dissect its charming writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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Section 17 Mechanical Waves Introduction

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