

## **Properties of Waves (Lessons 10-12) Note-Taking Guide**

Using what you learn in **Section 1: Lessons 10-12**, take notes on key concepts by answering the following prompts in your own words.

### **1. Describe the properties of waves.**

#### **▪ Essential Vocabulary**

- Wave
  - Mechanical wave
  - Electromagnetic wave
  - Transverse wave
  - Longitudinal wave
- What is a wave?
- Give an example to illustrate how a wave transports energy from one place to another without transporting matter.
- Distinguish between mechanical and electromagnetic waves.
- Distinguish between longitudinal and transverse waves.
- Using a diagram of a transverse wave, describe the properties of waves (crest, trough, wavelength, frequency, and amplitude).
- Describe how frequency and wavelength of a wave are related.

### **2. Identify applications of electromagnetic radiation.**

#### **▪ Essential Vocabulary**

- Wavelength
- Frequency
- Amplitude
- Period
- Pitch
- Using wavelength, frequency, and energy, describe different kinds of waves in the electromagnetic spectrum.
- Describe the relationship between color and wavelength/frequency for visible light.
- Describe common uses for the various types of electromagnetic radiation.

### **3. Distinguish sound waves and electromagnetic waves.**

- Differentiate between sound waves and electromagnetic waves in terms of speed, wave type, direction of vibration, and ability to travel through a vacuum.

# Study Guide Section 1 Properties Of Sound

**AW Chickering**



## **Study Guide Section 1 Properties Of Sound:**

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Hedrick, Paul R. Wagner, 2016-06-24 Gain a firm foundation for sonography practice Corresponding to the chapters in Hedrick's Technology for Diagnostic Sonography this study guide focuses on basic concepts to help you master sonography physics and instrumentation It includes laboratory exercises designed to teach you how to operate a scanner and comprehensive review questions allow you to assess your knowledge Not only will you learn the theoretical knowledge that is the basis for ultrasound scanning but also the practical skills necessary for clinical practice Laboratory exercises teach you the function of operator controls and how to optimize image quality and practice ALARA and include step by step instructions for scanner operation for hands on application and practice 250 review questions help you assess your understanding of sonography physics and instrumentation and identify areas of knowledge that may need further study Key Points at the beginning of each chapter emphasize the most important sonography principles that you need to understand and apply

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## Enjoying the Song of Appearance: An Mental Symphony within **Study Guide Section 1 Properties Of Sound**

In a world consumed by screens and the ceaseless chatter of instant transmission, the melodic beauty and psychological symphony developed by the written term often fade in to the back ground, eclipsed by the constant noise and disruptions that permeate our lives. Nevertheless, set within the pages of **Study Guide Section 1 Properties Of Sound** an enchanting literary treasure brimming with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this captivating masterpiece conducts readers on an emotional trip, skillfully unraveling the hidden melodies and profound impact resonating within each cautiously crafted phrase. Within the depths of this touching review, we can explore the book is central harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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