

# Nature Of Waves Section 1 Reinforcement Answers

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## **Nature Of Waves Section 1**

Interactive Textbook 366 The Energy of Waves SECTION 1 Name  
Class Date The Nature of Waves continued WAVES CAN  
TRANSFER ENERGY THROUGH A MEDIUM When a particle  
vibrates (moves back and forth), it can pass its energy to the  
particle next to it. The second particle will vibrate like the first  
particle and may pass the energy on to another particle.

## **CHAPTER 20 The Energy of Waves SECTION 1 The Nature of Waves**

a substance through which a wave can travel (can be solid, liquid, or gas)

## **The Nature of Waves (Section 1) & Properties of Waves ...**

Frequency -How many waves can pass a given point per second, measured in Hertz (Hz) Crest -Highest point of a wave Trough -Lowest point of a wave. Energy -Is the ability to do work.

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Loudness -Is the human perception of sound intensity. What two factors does loudness depend on? 1. Amount of energy. 2. Distance from the source.

## **Chapter 20 Section 1: The Nature of Waves Flashcards | Quizlet**

TEACHER RESOURCE PAGE | Answer Key Directed Reading A  
SECTION: THE NATURE OF WAVES A wave is any disturbance that transmits energy through matter or empty space. medium When a particle vibrates, it can pass energy to the particle next to it. The second particle will vibrate like the first particle does.

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## **Nature Of Waves Section 1 Reinforcement Answers | pdf Book ...**

The Nature of Waves • Ocean waves are formed most often by wind blowing across the ocean surface. • The size of the waves that are formed depend on the wind speed, the distance over which the wind blows, and how long the wind blows. 1

## **Chapter: Waves**

Light is the most important example of an electromagnetic wave for humans. Electromagnetic waves can propagate through transparent materials and can also propagate through empty space. The basic electromagnetic spectrum in order of increasing frequency is radio waves, microwaves, infrared, visible light, ultraviolet, x-rays, and gamma rays.

## **The Nature of Waves - The Physics Hypertextbook**

A wave is a repeating disturbance or movement that transfers energy through matter or space. Medium In both cases, the matter the waves travel through is called a medium.

## **Chapter 10 The Nature of Waves Flashcards | Quizlet**

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A wave that can only travel through matter. transverse wave. A wave in which the matter in the medium moves at right angles to the direction of the wave, has crests and troughs. longitudinal wave. A wave in which the matter in the medium moves back and forth along the direction that the wave travels. crest.

## **Study 21 Terms | Chapter 9: Intro to... Flashcards | Quizlet**

Water Wave. Sound Wave. The matter in the medium moves up and down or back and forth at right angles to the direction the wave travels. Transverse Wave. Waves that do not require matter to carry energy. Electromagnetic Wave. Ripples on the surface of a pond. Water Wave. Mechanical Wave.

## **Section 1 What Are Waves? Flashcards | Quizlet**

The energy of waves (like any form of energy) can be changed into other forms of energy. • Energy is a property of many substances and is associated with heat, light, electricity, mechanical motion, sound, nuclei, and the nature of a chemical. Energy is transferred in many ways.

## **The Nature of Waves - ed Online**

FIGURE 1 Sound Waves As a gong vibrates, it creates sound waves that travel through the air. Observing What do you observe about the spacing of particles in a compression? Making Sound Waves A sound wave begins with a vibration. Look at the metal gong shown in Figure 1. When the gong is struck, it vibrates rapidly. The vibrations disturb

## **1 The Nature of Sound of Sound**

SECTION 1 The Nature of Sound 323 Traveling as a Wave Compressions and rarefactions move away from the speaker as molecules in the air collide with their neighbors. As the speaker continues to vibrate, more molecules in the air are alternately pushed together and spread apart.

## **Chapter 11: Sound**

Electromagnetic waves are dealt with more fully in another section of this book. Gravitational waves. The gravitational field is the medium. Matter waves. The quantum mechanical

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description of fundamental particles like electrons and quarks as a wave; Classifying waves by type of disturbance Transverse waves

## **The Nature of Waves - Summary - The Physics Hypertextbook**

Section 1 1. Both are caused by something vibrating, and both transfer energy. Sound waves are compressional waves. they must have a medium to transfer energy. Electromagnetic waves are transverse waves.

## **Name Date Class 1 Reinforcement What are electromagnetic ...**

• Section 4: Magnetism • Section 5: Magnetism and Electricity. Chapter Five: Waves and the Electromagnetic Spectrum • Section 1: Waves • Section 2: Features of Waves • Section 3: Behavior of Waves • Section 4: Electromagnetic Spectrum • Section 5. Communicating with Radio Waves. Chapter Six: Sound, Light, Mirror and Lenses ...

## **Physical Science Interactive Notebook Complete Bundle ...**

Interactive Textbook 369 The Energy of Waves SECTION 1 Name Class Date The Nature of Waves continued SURFACE WAVE When waves move at or near the surface between two media a surface wave may form.

## **Nature Of Waves Section 1 Reinforcement Answers**

All waves, including forms of electromagnetic radiation, are characterized by, a wavelength (denoted by  $\lambda$ , the lowercase Greek letter lambda), a frequency (denoted by  $\nu$ , the lowercase Greek letter nu), and an amplitude.

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