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### **CH. 17 Mechanical Waves STUDY GUIDE**

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1.  $\text{Speed} = \text{Wavelength} \times \text{Frequency}$  2.  
Speed is also wavelength divided by its period

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Mechanical waves include water waves, sound waves, earthquake waves, and many more. Like all waves, those of the

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mechanical variety have peaks, or crests, and troughs. They also have a frequency,...

## **Mechanical Waves: Production & Propagation - Study.com**

There are many kinds of waves that mechanical engineers deal with. Some of them are in solids and others in liquids

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and gases; some are on the surface of the material and some in its interior. The basic quantity to be studied in a wave, that we will call  $u$ , will depend on the physical applications.

## **Introduction to the Mechanics of Waves**

diagrams. 1. Define the following words:

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Crest - the highest part of a transverse wave. Trough- the lowest part of a transverse wave. Amplitude-the height of a wave; the distance from the line of origin to the crest or the trough. Frequency-the number of crests of a wave that move past a point in a given time.



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## **STUDY GUIDE Wave Properties, Interactions, and Sound Waves**

a wave in which the vibration of the medium is parallel to the direction the wave travels. Longitudinal - direction of wave vs. direction of medium. the wave travels left to right and the medium travels parallel to the wave. Surface Wave. a wave that travels along a

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surface separating two media.

## **Chapter 17 Test Study Guide (Mechanical Waves and Sound ...**

Waves Unit Study Guide KEY 1 1.

Describe the differences between mechanical waves and electromagnetic waves? (S8P4a) 2. What feature best distinguishes one form of

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electromagnetic energy from another?  
(S8P4a) Wavelength 3. Using the  
Electromagnetic Spectrum diagram to  
the right, which electromagnetic wave  
transfers the most energy? (S8P4a ...

## **Waves Unit Study Guide KEY - Troup County School District**

1. Mechanical waves are waves that

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move through matter or empty space. 2. A wave in which the disturbance is perpendicular to the direction the wave travels is called a longitudinal wave. 3. The longer a wave's wavelength is, the its frequency will be. 4. The more energy a wave has, the smaller its amplitude will be. 5.

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the starting point of a wave.  
electromagnetic waves. waves that travel through no medium or empty space-vacuum. mechanical waves. waves that only travel through a medium. transverse wave. type of mechanical wave in which the energy runs at right angles to the wave. crest. the highest point of a transverse waves.



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## **waves study guide Flashcards | Quizlet**

Waves Unit Study Guide □□question1.

What is a wave? answerA wave is a disturbance that transfers energy.

question2. What cause waves?

answerForces cause waves by starting ...

All waves, both mechanical and light

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waves, can be 1. Absorbed 2. Reflected 3. Transmitted. question. 37. Explain transmission of a wave. answer.

## **Waves Unit Study Guide | StudyHippo.com**

While a mechanical wave exists in a medium (which on deformation is capable of producing elastic restoring

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forces) waves of producing elastic restoring forces), waves of electromagnetic radiation (and probably gravitational radiation))g,, can travel through vacuum, that is, without a medium.

**Waves & Sound - Trinity College  
Dublin**

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Types of mechanical waves • Waves that have compressions and rarefactions parallel to the direction of wave propagation are longitudinal. • Waves that have compressions and rarefactions perpendicular to the direction of propagation are transverse.

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## **Mechanical Waves**

The last part of the book deals with specific types of waves, i.e. mechanical wave equation, electromagnetic wave equation and the quantum wave equation. Armed with the concepts and equations you learned before, you will

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find how to apply them to specific types of waves in the real world to address some of the interesting problems.

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Wave Stations . 1. Electromagnetic Spectrum Drawing. 2. Brain pops over light, refraction and diffraction. 3. Quizizz over light. 446900. 4. Flipbook over Reflection, Refraction, Diffraction and Absorbtion. 5. Flash Card questions using the QR code reader. 6. Crossword Puzzle . Behavior of Light Card Sort . Reading Passage . Study Guide. Waves



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## **Drew Lindsey - Rockmart Middle School**

1. Define Wave A or o' 2. Create a Venn Diagram of Mechanical and Electromagnetic Waves Mechanical Waves Electromagnetic Waves trans Waves sound BOTH x-Ra.g . Vis Ra-dì6 is

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the material in which a wave travels through. 4. A pencil in a glass of water looks like it is broken where it enters the water. What force of wave

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