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mechanical waves can be produced only in media which possess elasticity and inertia there are three types of mechanical waves transverse waves longitudinal waves and surface waves some of the most common examples of mechanical waves are water waves sound waves and seismic waves

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the three main types of mechanical waves are water waves longitudinal waves and surface waves circle the letter of the characteristic used to classify a mechanical wave the highest point of a wave above the rest position is the and the lowest point below the rest position is the

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the following are all types of mechanical waves except a longitudinal waves b transverse waves c surface waves d amplification waves d amplification waves to determine the speed

of a wave you would use which of the following formulas

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a mechanical wave is a wave that is not capable of transmitting its energy through a

vacuum mechanical waves require a medium in order to transport their energy from one location to another a sound wave is an example of a mechanical wave sound waves are incapable of traveling through a vacuum

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mechanical waves are waves that propagate through matter gas liquid or solid and require a medium in order to transport energy inherently these waves cannot travel through a vacuum there are three main types of mechanical waves transverse waves

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a mechanical wave is a disturbance that travels through some material or substance called the medium for the wave there are basically two kinds of waves transverse and longitudinal waves waves propagate through the medium at a definite speed called the wave speed

chapter 17 mechanical waves and sound section 17 1

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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

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how do mechanical waves transfer energy through matter a wave is a disturbance that transmits there are two types of waves through matter or empty space what is a wave transmit energy through matter transmit energy through matter and or empty space microwaves water sound waves seismic waves waves radio waves x rays

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there are three types of mechanical waves transverse longitudinal and surface waves they differ in how particles of the medium move you can see this in the figure below figure1 in a transverse wave particles of the medium vibrate up and down perpendicular to the

direction of the wave

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1 what does wave mechanics study a the behavior of particles in motion b the properties of electromagnetic waves c the properties and behavior of waves d the principles of quantum mechanics answer c the properties and behavior of waves 2 waves transfer energy from one place to another without a changing the medium

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1 pt what happens when a mechanical wave travels through a medium waves are transferred energy is transferred mass is transferred particles are transferred 3 multiple choice 2 minutes 1 pt energy can be transferred from one medium to another through vibrations stacking objects an ordered sequence

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mechanical wave motion is manifest by transverse waves on fluid surfaces longitudinal and transverse seismic waves travelling through the earth and vibrations of mechanical structures such as suspended cables

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this book will help students to appreciate that understanding wave motion is fundamental to almost every branch of physics it covers a broad range of wave phenomena in optics electromagnetism sound quantum mechanics oceanography and other fields the exercises at the end of each chapter will be useful for instructors and students alike

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