

## *The Nature Of Sound Waves Answers*

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### **The Nature Of Sound Waves**

Sound is a longitudinal, mechanical wave. Sound can travel through any medium, but it cannot travel through a vacuum. There is no sound in outer space. Sound is a variation in pressure. A region of increased pressure on a sound wave is called a compression (or condensation).

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

A sound wave is similar in nature to a slinky wave for a variety of reasons. First, there is a medium that carries the disturbance from one location to another. Typically, this medium is air, though it could be any material such as water or steel.

### **Sound is a Mechanical Wave - physicsclassroom.com**

The Nature of Sound Waves. Before force is applied, particles are equidistant from each other. Particles move out of positions of equilibrium because of inertia and elasticity. They compress and rare fact until it reaches the end.

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Nature of Sound Waves Sound is one kind of longitudinal wave, in which the particles oscillate to and fro in the same direction of wave propagation. Sound waves cannot be transmitted through vacuum.

### **Nature of Sound Waves - City University of Hong Kong**

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THE NATURE OF SOUND. By Federico Miyara . Sound Waves. Sound is created by a disturbance travelling in an elastic medium. For instance, when an excess pressure is produced on some region of the air, that region tends to expand towards the neighbouring zones.

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### **Sound Waves and Music - physicsclassroom.com**

As a longitudinal wave, sound is a rapid variation in pressure that propagates. Regions of above normal pressure (regions under compression) are called compressions or condensations. Regions of below normal pressure (regions under tension) are called rarefactions or dilations. Sound is produced by small and rapid pressure changes.

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

Sound is characterized as propagation of density changes through an elastic medium Sound is

defined as transfer of energy through an elastic medium Energy is transferred in direction wave is propagated Air mass offers resistance: Without the microphone couldn't hear in the back Kinetic energy is transformed to thermal energy.

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Sound is a form of energy, just like electricity and light. A sound is made when air molecules vibrate and move in a pattern called waves, or sound waves. Think of when you clap your hands, or when you slam the car door shut. That action produces sound waves, which travel to your ears and then to your brain, which says, "I recognize that sound."

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