

The Nature of Sound Waves

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MOP Connection: Sound and Music: sublevel 1

TRUE or FALSE: Identify the following statements as being either true (T) or false (F).

T or F?

- True** 1. Sound waves are longitudinal waves.
- False** 2. As the teacher talks, students hear the voice because particles of air move from the mouth of the teacher to the ear of the student.
- True** 3. Sound waves are mechanical waves.
- True** 4. All sound waves are produced by a vibrating object.
- True** 5. A sound wave does not consist of crests and troughs.

6. Mac is talking to Kate. The dot at A represents a particle of air. Describe the motion that this particle must undergo in order for Kate to hear Mac. Then show the motion by placing arrows on the diagram.



The particle of air vibrates back and forth about its fixed position. It does not translate; it vibrates. That is, the particle does not move to Kate. It simply wiggles back and forth about position A. The amplitude of its vibration is abnormally small, nowhere close in scale to that represented by the arrow on the diagram.

7. Tosh is holding one end of a slinky; the opposite end is attached to a wall. Tosh wishes to produce a longitudinal wave in the slinky. Describe how Tosh must move his hand in order to produce a longitudinal wave. Then place arrows on the diagram to show the way in which Tosh must move his hand.



In longitudinal waves (like sound waves), particles of the medium (in this case, the coils) vibrate back and forth parallel to the direction of wave motion. To cause this parallel motion, Tosh must vibrate the first rightward and leftward.

8. A sound wave is moving through air. The diagram below represents a snapshot of the air particles at a given instant in time. Several regions are labeled with a letter. Use the letters to identify the compressions and rarefactions.



Compressions: A, C, E, G, I and K

Rarefactions: B, D, F, H and J

9. A science fiction film depicts inhabitants of one spaceship (in outer space) hear the sound of a nearby spaceship as it zooms past at high speeds. Critique the physics of this film.

Sound waves are mechanical waves - they require a medium in order to move one location to another. The film disregards this property of sound waves by depicting their motion through space that is void of matter. Only electromagnetic waves could travel through the vacuum of outer space.

The Nature Of Sound Worksheet Answers

Lauren Gardner



The Nature Of Sound Worksheet Answers:

Embracing the Melody of Term: An Psychological Symphony within **The Nature Of Sound Worksheet Answers**

In a global used by monitors and the ceaseless chatter of immediate connection, the melodic beauty and mental symphony created by the prepared term frequently diminish in to the back ground, eclipsed by the relentless sound and disturbances that permeate our lives. Nevertheless, set within the pages of **The Nature Of Sound Worksheet Answers** a wonderful fictional treasure brimming with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, this interesting masterpiece conducts viewers on a psychological journey, skillfully unraveling the hidden songs and profound impact resonating within each carefully crafted phrase. Within the depths of this touching assessment, we can examine the book is key harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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