

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.

Sound And Music The Physics Classroom Answers

Jin-Ying Zhang



Sound And Music The Physics Classroom Answers:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Sound And Music The Physics Classroom Answers**

In a world inundated with monitors and the cacophony of immediate connection, the profound energy and emotional resonance of verbal beauty often fade into obscurity, eclipsed by the continuous assault of sound and distractions. Yet, located within the lyrical pages of **Sound And Music The Physics Classroom Answers**, a captivating perform of fictional splendor that pulses with fresh emotions, lies an unforgettable trip waiting to be embarked upon. Composed by a virtuoso wordsmith, this mesmerizing opus books viewers on a mental odyssey, lightly exposing the latent potential and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is key themes, dissect their charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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