The Nature of Sound Waves

Read from Lesson 1 of the Sound and Music chapter at The Physics Classroom:

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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).

Tor F?

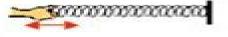
- 1. Sound waves are longitudinal waves.
- As the teacher talks, students hear the voice because particles of air move from the mouth of the teacher to the ear of the student.
- True 3. Sound waves are mechanical waves.
- True 4. All sound waves are produced by a vibrating object.
- True 5. A sound wave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

 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. Land K.

Rarefactions: B. D. F. H and I

 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 <u>mechanical waves</u> - they require a medium in order to move one location to another. The film disregards this preperty 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

Mary Stone Hanley, Gilda L Sheppard, George W. Noblit, Thomas Barone

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The Physics of Sound and Music Eric J. Pulver,1998 Physics and Music Harvey E. White, Donald H. White, 2014-04-15 Comprehensive and accessible this foundational text surveys general principles of sound musical scales characteristics of instruments mechanical and electronic recording devices and many other topics More than 300 illustrations plus questions PGT Music Question Bank Chapterwise - for PGT Teachers Mocktime Publication, PGT Music problems and projects Question Bank Chapterwise for PGT Teachers 15 TGT Music Test Papers EMRS Mocktime Publication, EMRS Exam Teachers TGT Music Test Papers 15 Practice Papers Tier 1 Eklavya Model Residential Schools as per Official Exam Pattern Classroom Assessment for Student Learning Richard J. Stiggins, Judith A. Arter, Jan Chappuis, 2004 DVD and Syllabus includes video segments illustrating ideas and practices presented in the book and a CD ROM containing activities that facilitate individual or group learning back cover Explorations in Ethics David Kaspar, 2020-09-01 Explorations in Ethics is a collection of essays with a speculative bent Its twelve contributors attempt to take ethics thinking in new directions Ethics is fundamentally a speculative discipline We sometimes lose sight of that because of our current scholarly practices which include reliance on a set of traditional works in ethics deferring to the scholarly literature drawing from the evidential sources afforded us This volume breaks the mold It is committed first and foremost to exploring new ground in a methodologically sound way whilst respecting and building on the literature where needed The contributors range from world renowned ethicists to early career scholars The ethical standpoints represented are various and the overall aim of this collection is to stimulate fresh thinking Sound Inventions Bart Hopkin, Sudhu Tewari, 2021-08-04 Sound Inventions is a collection of 34 articles taken from Experimental Musical Instruments the seminal journal published from 1984 through 1999 In addition to the selected articles the editors have contributed introductory essays placing the material in cultural and temporal context providing an overview of the field both before and after the time of original publication The Experimental Musical Instruments journal contributed extensively to a number of sub fields including sound sculpture and sound art sound design tuning theory musical instrument acoustics timbre and timbral perception musical instrument construction and materials pedagogy and contemporary performance and composition This book provides a picture of this important early period presenting a wealth of material that is as valuable and relevant today as it was when first published making it essential reading for anyone researching working with or studying sound General Music Carlos R. Abril, Brent M. Gault, 2022-07-15 General Music Dimensions of Practice is a practical guide for music teachers and teaching artists It offers many useful and innovative ideas for performing connecting creating and responding to music in the classroom Each chapter focuses on a particular area of music teaching and learning including songwriting composing improvising singing moving playing listening analyzing contextualizing and connecting Theoretical And Practical Pedagogy Of Mathematical Music Theory: Music For Mathematics And Mathematics For Music, From School To Postgraduate Levels Mariana

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