

PHET Introduction to Waves, Part II: Sound

ANSWER KEY and TEACHING NOTES

Go to the Phet website at <https://phet.colorado.edu/en/simulation/waves-intro> and choose the Sound simulation.

SETUP

Also attach your wave meter and drag one probe into the wave-viewing area.

Click on *Both Particles and Waves* so you can watch how both vary.



ANALYSIS

1. Explore the sound simulation as you change the amplitude and frequency. Look for patterns and relationships. **No answer needed!**
2. Do the particles move in the same direction as the wave or perpendicular to the motion of the wave? What do we call this kind of a wave? (transverse or longitudinal?) **Same direction, longitudinal. Be careful that they might confuse this with a water wave which is a special case, not a pure longitudinal wave. Basically the water particles move in 2-dimensional circles while sound waves merely oscillate back-and-forth.**
3. Freeze and observe: are the particles closer together or farther apart in the white area of the wave-viewing area? **Farther apart**
4. What is the name for this portion of a wave? **Rarefaction (where the particles are more rare)**
5. Are the particles closer together or farther apart in the dark area of the wave-viewing area? **Closer**
6. What is the name for this portion of a wave? **Compression**
7. Follow one red dot as the waves cross it. After a number of waves have crossed it what happens to its net displacement? **There is no net displacement, they keep coming back.**
8. Do the particles ever move permanently across the field of view? If the particles are not moving, what is moving? **No, energy**
9. The graph is a graph of kinetic energy. How would you describe the difference between the energy at a peak and the energy at a trough? **The amount of energy is the same but the direction is opposite.**

Sound Inc Manual Simulation Answer Key

Daniel F McAuley



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Handbook of Driving Simulation for Engineering, Medicine, and Psychology Donald L. Fisher, Matthew Rizzo, Jeffrey Caird, John D. Lee, 2011-04-25 Effective use of driving simulators requires considerable technical and methodological skill along with considerable background knowledge Acquiring the requisite knowledge and skills can be extraordinarily time consuming yet there has been no single convenient and comprehensive source of information on the driving simulation research being conducted

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More Evaluation Instruments Ruth Stadius, 1999 Use this collection of sample evaluation instruments and articles from organizations around the globe to give you a jump start on work

The Software Encyclopedia 2001, 2001

Virtual Reality Special Report, 1995

Monthly Catalogue, United States Public Documents, 1995

Resources in Education, 1980

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1968

Proceedings, 1964

Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1995 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index

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