PHET Introduction to Waves, Part II: Sound

ANSWER KEY and TEACHING NOTES

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

SETUP

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

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



ANALYSIS

- 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 white sound waves merely oscillate back-and-forth.
- Freeze and observe: are the particles closer together or farther apart in the white area of the waveviewing 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
- 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.
- Do the particles ever move permanently across the field of view? If the particles are not moving, what is moving? No, energy
- 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

Laura T. Gantt, H. Michael Young

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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 conductory. The Software Encyclopedia 2001, 2001 Virtual Reality Special Report, 1995

Healthcare Simulation Laura T. Gantt, H. Michael Young, 2015-11-02 A focused guide for healthcare simulation operations in education and training With the growing use of simulation within the field of healthcare Healthcare Simulation A Guide for Operations Specialists provides a much needed resource for developing the roles and responsibilities of simulation operations specialists The book illustrates the current state and evolution of the simulation professional workforce and discusses the topics necessary for the development of these pivotal roles. The book promotes the value of simulation based education in healthcare and its associated outcomes while clarifying the operational requirements of successful simulations Featuring numerous contributions from international experts consultants and specialists Healthcare Simulation A Guide for Operations Specialists presents advances in healthcare simulation techniques and also features Coverage of the best practices and available technologies for healthcare simulation operations specialists within healthcare education training and assessment Interdisciplinary practical examples throughout to help readers better understand the presented material An overview of the many facets of day to day operations within a healthcare simulation program Discussions regarding the concurrent need for understanding proper patient care that accompanies the human to machine interface in patient simulation Healthcare Simulation A Guide for Operations Specialists is an excellent reference for healthcare simulation professionals including administrators medical directors managers simulation technologists faculty members and educators in academic and healthcare settings The book is also a useful supplementary textbook for graduate level courses related to simulation and certificate programs in simulation education and simulation operations **Proceedings** ,1964

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