

Directions: Follow the steps below while using *Wave Interference*. Be sure to completely answer each question.

1. Do a search for Phet Wave Interference. Click where it says Waves on the left.



2. On the next screen click the speaker symbol on the left.



3. Click the box next to Play Tone

4. Click the green circle on the speaker on the left to start the simulation.

- a. You should hear a constant sound if your sound is on. Move the frequency button to the left and right. Describe what happens to the sound as you move from minimum to maximum frequency.
Minimum frequency = low pitch. Maximum frequency = high pitch.

- b. Does the change of sound and frequency match what was described in our notes? Explain how it does or does not.
Yes. Low frequency = low pitch and high frequency = high pitch.

5. Turn the sound off and move the frequency to maximum. Observe the waves produced. Now switch to minimum frequency.

- c. What characteristic of the wave changes, other than frequency. (Look at the spaces between the waves.)
Space between waves or wavelength.

- a. If you have trouble seeing the relationship in the question c switch to the water wave view,  then click Side View on the lower left side of the screen. Switch between minimum and maximum frequency to see the relationship.

6. Switch back to the speaker  sound setting. Click the Particles button on the right. Compare the red air particles on the left side of screen to the red particles on the right.

- d. What is different about the behaviors of the particles on opposite sides of the screen?
Particles on the left move more than the particles on the right.

- e. What characteristic of a wave does the difference in movement of the red particles represent?
The distance of displacement from rest position is measured by amplitude.

- a. If you can't see the characteristic in question e click Graph on the right side of the screen. This converts the compression wave to a transverse wave. (The dotted line on the graph indicates the rest position of the medium.)

7. As our notes from last week mention the loudness or intensity of sound (similar measures but not exactly the same) are both related to the amplitude of the wave.

- f. When you hear a sound, what is typically true about the loudness / intensity of the sound the closer you get to the source?
The closer you are to a sound's source the louder or more intense the sound.

- g. How does the amplitude of the waves on the screen match the loudness / intensity as you get closer to the speaker on the left?
The amplitude or movement of the particles increases as you get closer to speaker.

8. Next, click the green button on the speaker on the left to stop the sound. Let the particles in the medium settle down, then click the green button again to turn on the speaker. Notice what the yellow part of the speaker is doing to create the sound.

Answers Waves Sound Lab Phet

SB Merriam



Answers Waves Sound Lab Phet:

The Physics of Music Gordon P. Ramsey, 2024-06-18 This textbook is designed to help students and professionals understand the intimate connection between music and physics The reader does not need prior background in music or physics as the concepts necessary for understanding this connection are developed from scratch using nothing more sophisticated than basic algebra which is reviewed for the reader The focus is on connecting physics to the creation of music and its effect on humans The reader will learn about the basic structure of music in relation to acoustics concepts different musical instrument groups how the room affects sound and how sound travels from instruments to human ears to evoke an emotional reaction Replete with exercises to hone students understanding this book is ideal for a course on the physics of music and will appeal to STEM students as well as students professionals and enthusiasts in any field related to music and sound engineering

Foundations of Anatomy and Physiology - ePub Ellie Kirov, Alan Needham, 2023-04-01 This new practice manual is designed to provide students with the conceptual foundations of anatomy and physiology as well as the basic critical thinking skills they will need to apply theory to practice in real life settings Written by lecturers Dr Ellie Kirov and Dr Alan Needham who have more than 60 years teaching experience between them the book caters to nursing health science and allied health students at varying levels of understanding and ability Learning activities are scaffolded to enable students to progress to more complex concepts once they have mastered the basics A key advantage of this manual is that it can be used by instructors and students in conjunction with any anatomy and or physiology core textbook or as a standalone resource It can be adapted for learning in all environments including where wet labs are not available Can be used with any other textbook or on its own flexible for teachers and students alike Scaffolded content suitable for students varying learning requirements and available facilities Concept based practical activities can be selected and adapted to align with different units across courses Provides a range of activities to support understanding and build knowledge including theory application and experimentation Activities can be aligned to learning requirements and needs may be selected to assist pre class in class post class or for self paced learning Easy to navigate icons identify content type contained in each activity as well as safety precautions An eBook included in all print purchases Additional resources on Evolve eBook on VitalSource Instructor resources Answers to all Activity questions List of suggested materials and set up requirements for each Activity Instructor and Student resources Image collection

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Bayrock,2006 Introduces the concepts of sound waves vibration and energy and presents how humans perceive and produce different sounds Provided by publisher **Waves, Sound, and Light** ,2005 **Sound and Light** Michael J. Padilla,Ioannis Miaoulis,Martha Cyr,Jay M. Pasachoff,2002 *Sound Waves and Communication 6-Pack* Jenna Winterberg,2015-07-20

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