

# Answers Waves Sound Lab Phet

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Procedure: PhET Simulations ? Play With Sims ? Sound and Waves ? Wave Interference. Part I: Water Waves Analogy take some time to familiarize yourself with the simulation s controls. Observe the water waves created in the faucet analogy. The darker areas are areas of higher amplitude.

PhET Simulation: Sound

We review concepts of sound including amplitude, wavelength, constructive and destructive interference, the effect of air pressure, and the Doppler effect. We use the PhET simulation at [https ...](https://phet.colorado.edu/simulations/phet-sound)

Sound - Sound, Interference, Pressure - PhET

3.5 Investigating Sound Waves Lab Objective: Explore sound

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(a longitudinal ... PHET Sound Simulation 2 of 2 Questions 4-9 ... c. Use the information on this page and the sound files to answer questions 4-6. Turn in: 1. What is the effect of changing the frequency of the tone generated? 2. What is the effect of changing the amplitude of the tone ...

Wave Interference Lab Go To [HYPERLINK "http://phet ...](http://phet...)  
Students use the “ Sound ” simulation from the PhET Interactive Simulations to understand how different sounds are modeled, described and produced. ... Sound Wave Lab Word Doc Sound Wave Lab PDF ... Students should work individually or in groups of 2 or 3 to answer the questions.

LIGHT: 16b Wave Interference PhET

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This simulation lets you see sound waves. Adjust the frequency or volume and you can see and hear how the wave changes. Move the listener around and hear what she hears.

Sound Waves Lab - PhET Contribution

Sound and Wave Basics. HW #1 Sound and Music ... Answers Included No: Language English: Keywords Amplitude, frequency, longitudinal, transverse: Simulation(s) Sound, Wave on ... About PhET Our Team Sponsors. Offline Access Help Center Contact. Source Code Licensing For Translators

Sound Wave Lab - Explore Sound

In part three of the lab, you will view the results of splitting a

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single wave source with a narrow slit, and then observe as the new waves created at the slit interfere. The interference pattern that results is symmetrical.

### Sound Waves - PhET Contribution

Sound Waves Lab: Description This activity introduces sound waves. The students need to recall the definitions of frequency and period, so by this point we have already gone over basic wave definitions. Subject Physics: Level High School: Type Lab: Duration 60 minutes: Answers Included No

### Sound & Waves - PhET Simulations

Sound Waves: Description To determine the variables which

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effect sound waves. Subject Physics: Level High School: Type Lab: Duration 60 minutes: Answers Included No: Language English: Keywords Sound, Waves: Simulation(s) Sound

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Waves Intro: Wave Interference: Normal Modes: Optical Tweezers and Applications: Radio Waves & Electromagnetic Fields: Fourier: Making Waves: Sound: Wave on a String

Solved: Physics Lab 6 Sound Waves Go To [Http://phet.colora](http://phet.colora)

...

What is the speed of the wave now? Decrease the frequency to 200Hz. How long does it take the sound waves to reach 5

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meters? What is the speed of the wave now? Is there a relationship between frequency of the wave and its speed? If so, what is it? Return the frequency back to 550Hz. Increase the amplitude of the wave. What do you observe about ...

Sound - PhET

LIGHT: 16b Wave Interference PhET Science Karate.

Loading... Unsubscribe from Science Karate? ... Phet Wave on a String Explanation - Duration: 6:38. Bill Chandler 1,425 views.

PHET Sound Simulation - Weebly

1. Observe the sound waves coming from the speaker. a)



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What do the dark and light bands represent? (Remember, sound waves are longitudinal waves.) b) Why do the waves get lighter with distance from the speaker? c) How does changing the frequency and amplitude affect the depiction of the sound waves in the simulation?

### PHET Sound Simulation - OpenStudy

This simulation lets you see sound waves. Adjust the frequency or volume and you can see and hear how the wave changes. Move the listener around and hear what she hears.

### Sound Waves Simulation Worksheet

Introduction for using PhET "wave Interference" simulation

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a long with the activities found on the PhET Interactive Simulations Teacher's Resource area under Simon Lees.

### PhET Wave Interference

This interactive simulation allows students to explore the properties of sound waves. Frequency and amplitude can be controlled, and students can enable audio tones to explore how pitch is related to frequency. Other options allow users to...

Wave Interference Lab Go To [HYPERLINK "http://phet ...](http://phet...)  
Use the pictures to answer the following questions. The green arrow is measuring what? The red arrow(s) are measuring what? ... Calculate the speed of this sound wave

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by recording how much time it takes to travel 5 meters. Use the (old school) velocity equation:  $v = d/t$  Show units in your work. ... PHET Sound Simulation ...

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