

Vocabulary: Doppler shift, frequency, pitch, sonic boom, sound waves, wavelength

Highlight your answers in either **GREEN** / **BLUE** / OR **YELLOW**

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)


Have you ever heard a siren on a moving ambulance, fire truck, or police car? If so, what happens to the sound as the vehicle passes by?

Sometimes when cars are passing I usually hear the car running and sometimes I hear the horn of the car.

The change in the sound that you hear is called the **Doppler shift**.

Gizmo Warm-up

The Doppler Shift Gizmo illustrates why the Doppler shift occurs. The Gizmo shows a vehicle that emits **sound waves** and an observer who will hear the sounds.

- Click the **PLAY SAMPLE** button (). (Check that the Gizmo's sound and your computer's speakers are on.)

What do you hear?

I hear I police siren

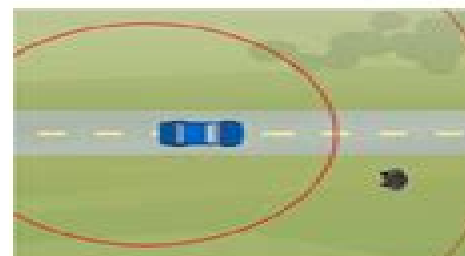
- Click **Play** () and observe the sound waves emitted from the moving car. Click **Pause** () and compare the sound waves in front of and behind the car. **What do you notice?**

Something that I notice is the length between them is about 900cm


- Use the **Ruler** to measure the **wavelength**, or the distance between the lines, of the waves in front of and behind the car. (Note: The red circles represent every thousandth wave.)

Wavelength in front of car: 600 cm

Wavelength behind car: 900 cm



Why do you think the waves in front of the car have a shorter wavelength than the waves behind the car? *I think that the reason that the front is shorter than the back is because the car is chasing the waves and the waves in the back are running away from the car.*

Activity A: The Doppler shift	Get the Gizmo ready: <ul style="list-style-type: none"> Click Reset (). Check that f_{source} is set to 500 Hz and v_{observer} is set to 340 m/s, close to the actual speed of sound. Set v_{source} to 0 m/s. 	f_{source} (Hz) <input type="text"/> v_{observer} (m/s) <input type="text"/> v_{source} (m/s) <input type="text"/>
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Doppler Effect Gizmo Answers

Peter Maria Schuster

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Doppler Effect Gizmo Answers:

Away (Vol 1: Beginnings & Vol 2: Keepers of the Alliance) Norman Oro, 2013-04-26 For the first time ever the complete Away saga Volume 1 Beginnings and Volume 2 Keepers of the Alliance is now available in one book Spanning over fifty years Away chronicles the adventures of quantum physicist Alberto Rys Stumbling upon a scientific breakthrough that could revolutionize the transportation of people resources goods and even information around the globe Dr Rys begins a quest to realize the discovery's full potential He's eventually joined by a group of equally brilliant and idiosyncratic souls who help him to rapidly develop the technology However as they near their goal they find themselves suddenly entangled in a web of deceit that shatters their team and inadvertently brings Dr Rys to the faraway world of Onav There he encounters the ghostly remnants of a once mighty interstellar alliance and learns of the invincible race of predators who almost destroyed it the Grell Dr Rys is then asked to make a choice that will reverberate throughout humanity Will Earth join the struggle against the Grell or will the disembodied spirits of Onav forever be all that remains of the Alliance The Doppler Effect Thomas Perrott Gill, 1965 **Using Physics Gadgets and Gizmos, Grades 9-12** Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamäki, 2014-03-01 What student or teacher can resist the chance to experiment with Rocket Launchers Drinking Birds Dropper Poppers Boomwhackers Flying Pigs and more The 54 experiments in Using Physics Gadgets and Gizmos Grades 9-12 encourage your high school students to explore a variety of phenomena involved with pressure and force thermodynamics energy light and color resonance buoyancy two dimensional motion angular momentum magnetism and electromagnetic induction The authors say there are three good reasons to buy this book 1 To improve your students thinking skills and problem solving abilities 2 To acquire easy to perform experiments that engage students in the topic 3 To make your physics lessons waaaaay more cool The phenomenon based learning PBL approach used by the authors two Finnish teachers and a US professor is as educational as the experiments are attention grabbing Instead of putting the theory before the application PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why Students engage in the activities not as a task to be completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physics facts Using Physics Gadgets and Gizmos can help them learn broader concepts useful critical thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Boomwhackers and Flying Pigs both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at <http://www.arborsci.com> nsta's kits *The Micro-doppler Effect in Radar* Victor C. Chen, 2011 The Doppler Effect can be thought of as the change in frequency of a wave for an observer moving relative to the source of the wave In radar it is used to measure the velocity of detected objects This highly practical resource provides thorough working knowledge of the micro Doppler effect in radar including its principles applications and implementation with MATLAB codes The book presents code for simulating

radar backscattering from targets with various motions generating micro Doppler signatures and analyzing the characteristics of targets In this title professionals will find detailed descriptions of the physics and mathematics of the Doppler and micro Doppler effect The book provides a wide range of clear examples including an oscillating pendulum a spinning and precession heavy top rotating rotor blades of a helicopter rotating wind turbine blades a person walking with swinging arms and legs a flying bird and movements of quadruped animals Moving the Stars Peter Maria Schuster,2005

Theory and Applications of the Doppler Effect Shelley Dee Webb,1993

Doppler Effect Bernard Malas,2021-03-19

Many people who are not in the profession may feel confused about what is called the Doppler Effect or Doppler Shift and wondering about the Doppler Effect definition Doppler Effect formula and Doppler Effect equation If you are one of them and you are wishing to find a way to fathom all about it this book is for you The Doppler Effect represents the frequency variation of the waves received by an observer which is drawing coming respectively it s removing going from a wave spring source

The Rotational Doppler Effect and the Rotational Frequency Shift Marcin Michalski,2004

The Phenomenon of

Doppler Ivan Štoll,1992

A New Technique for Measuring Doppler Effect Subin Banharnsupavat,1975

Lesson Plan

on the Doppler Effect , The Johns Hopkins University Applied Physics Laboratory presents a lesson plan entitled Lesson Plan on the Doppler Effect This lesson is suitable for use with students in grades 8 12 The students will explore the Doppler effect which is the change of wavelengths from a source that could be visible light The laboratory offers this lesson plan as part of the Educator s Guide to Near Earth Asteroid Rendezvous NEAR **Demonstration of the Doppler Effect** Robert

Williams Wood,1897

On the Doppler Effect when Moving Through a Heterogeneous Medium G. D. Yakovlova,A. I.

Rogashkova,FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO.,1963

New Doppler Effect Florian Ion

Petrescu,2012-01-01 The Doppler effect or Doppler shift named after Austrian physicist Christian Doppler who proposed it in 1842 in Prague is the change in frequency of a wave for an observer moving relative to the source of the wave It is commonly heard when a vehicle sounding a siren or horn approaches passes and recedes from an observer The received frequency is higher compared to the emitted frequency during the approach it is identical at the instant of passing by and it is lower during the recession The relative changes in frequency can be explained as follows When the source of the waves is moving toward the observer each successive wave crest is emitted from a position closer to the observer than the previous wave Therefore each wave takes slightly less time to reach the observer than the previous wave Therefore the time between the arrival of successive wave crests at the observer is reduced causing an increase in the frequency While they are travelling the distance between successive wave fronts is reduced so the waves bunch together Conversely if the source of waves is moving away from the observer each wave is emitted from a position farther from the observer than the previous wave so the arrival time between successive waves is increased reducing the frequency The distance between successive wave fronts is increased so the waves spread out For waves that propagate in a medium such as sound waves the velocity of the observer

and of the source is relative to the medium in which the waves are transmitted The total Doppler Effect may therefore result from motion of the source motion of the observer or motion of the medium Each of these effects is analyzed separately For waves which do not require a medium such as light or gravity in general relativity only the relative difference in velocity between the observer and the source needs to be considered The Doppler Effect 1 3 represents the frequency variation of the waves received by an observer which is drawing coming respectively it s removing going from a wave spring source If a bright spring is drawing to an observer the frequency of waves received by the observer is bigger than the emitted frequency of source such that the respective spectral lines are moving to violet On the contrary if the light source is removing from the observer the spectral lines are moving to red One proposes to study the Doppler Effect for the light waves generally for the electromagnetic waves

Doppler Effect Correction for Motions of Source, Observer, and Fluid R. A.

Mangiarotti, BOEING CO RENTON WASH AIRPLANE DIV., 1966 Pertinent equations for the Doppler effect are presented for the general case of moving sources and receivers in a moving medium A method is also given for correcting the spectral energy level of data measured in bandwidths Author *The Doppler Effect at Velocities Greater Than the Speed of Light V.*

L. Ginzburg, FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO., 1964 ON THE DOPPLER EFFECT IN A MEDIUM. Kelvik S. H. Lee, CALIFORNIA INST OF TECH PASADENA ANTENNA LAB., California Institute of Technology.

Division of Engineering and Applied Science, 1963 The problem of calculating the frequency of the wave scattered by a body moving in a medium is formulated from field theoretic considerations The Doppler equation for a homogeneous dispersive medium is obtained on the basis of the fact that the frequency and the wave vector of a plane wave form a 4 vector It is found that the solutions of the Doppler equation can be classified into two kinds In one the solutions are close to the frequency of the incident wave In the other kind they appear near the poles of the refractive index of the medium on the omega axis In the case of an isotropic plasma the monochromaticity of the incident wave is shown to be preserved after the wave is scattered by a moving body However in the case of a magneto active plasma the scattered wave contains more than one frequency for a monochromatic incident wave The physical interpretations of these frequencies are given In an inhomogeneous medium the Doppler equation has to be derived from a different starting point The crucial point of the derivation is to perform spectral decompositions of the transformed fields and then to apply under the assumption of gradual inhomogeneity the method of stationary phase to determine the critical points Author **Laser Doppler Technique** L. E. Drain, 1975 *Investigation of Doppler Effect in Determining Direction of Arrival of Radio Waves* Joseph Ludger Lionel Boulet, 1947 *The Doppler Effect in the Hydrogen Maser* Catherine L. Hirshfeld, 1990

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