

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.)

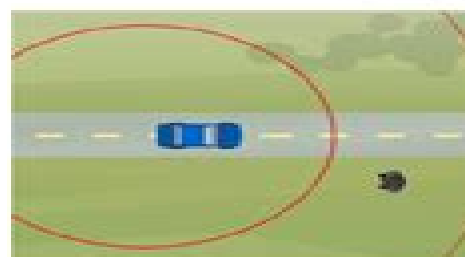
Have you ever heard a siren on a moving ambulance, fire truck, or police car? If so, what happens to the sound as the vehicle passes by?

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.



1. 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

2. 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

3. 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:

- Click **Reset** ().
- Check that f_{source} is set to 500 Hz and v_{sound} is set to 340 m/s, close to the actual speed of sound.
- Set v_{source} to 0 m/s.

f_{source} (Hz)

v_{sound} (m/s)

v_{source} (m/s)

Doppler Shift Gizmo Answers

Jack H. Jones

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 Shift Gizmo Answers:

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 *The Doppler Effect* Thomas Perrott Gill, 1965 **A New Doppler Effect** Florian Ion Petrescu, 2012 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 *Doppler Shift Lifetime Measurements in 46Ti and 50Cr* Panayotis Adam Assimakopoulos, 1971 Moving the Stars Peter Maria Schuster, 2005 **Visual Display of Doppler Shift Spectra ...** Paul Shield, 1978 **The Laser Doppler Technique** L. E. Drain, 1980 *Principles of Doppler and Color Doppler Imaging* Rainer Haerten, Michael Mück-Weymann, 1994-09-06 Rainer Haerten Michael Mück-Weymann Principles of Doppler and Color Doppler Imaging Due to the need to bridge the gap between haemodynamic questions and the technical

means to answer them this book discusses the fundamentals of Doppler and Color Doppler Sonography It includes a brief outline of vascular haemodynamics the physical and technical principles typical physiological findings as well as a survey of the most frequently used evaluation procedures in vascular diagnosis Numerous illustrations and examples of ultrasound images are included to assist in the understanding of Doppler and Color Doppler applications Some Doppler Shift Lifetimes in André Lachaine,1970 **A Precision Astronomical Instrument to Measure Doppler Shift** Robert Paul Butler,1987 *Measurement of the Differential Doppler Shift* Ehud Weinstein,Woods Hole Oceanographic Institution,1982 *Results of a Field Study Using the 3-axis Doppler Shift Meter* R. C. Seitz,1971 *Doppler Shift Effects on Infrared Band Model Calculations* J.A. Drakes,1989 *Doppler-shift Lifetime Measurements in ^{20}Ne , ^{24}Mg and ^{28}Si* John Herbert Anderson,1969* *An analytic theory of doppler-shift attenuation* K. B. Winterbon,1975 **A Doppler Shift of Coherent Light Using the Kerr Cell** Ernest Linwood Burdette,1968 **Estimation of Doppler Shift and Spectral Width of a Random Process** Morris J. Levin,Lincoln Laboratory,1962 *Effect of Doppler Shift on the Reception of Signals in a Binary System* Jack H. Jones,1963 **Equations for Bistatic Doppler Shift and Rate of Change of Doppler Shift of Dark Satellite Observations** W. D. DAHL,NAVAL RESEARCH LAB WASHINGTON D C.,1961 *Frequency Estimation of Doppler Shift for Ionospheric Studies* Jeffrey Michael O'Keefe,1997

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