

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

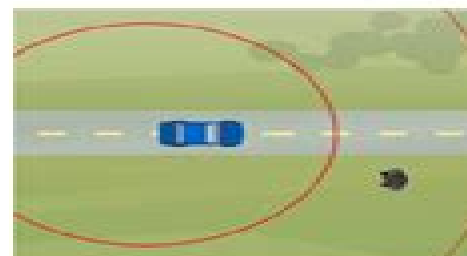
- Click **Play** () and observe the sound waves emitted from the moving car. Click **Pause** () and compare the sound waves in front of and behind the car. **What do you notice?**

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	<p><u>Get the Gizmo ready:</u></p> <ul style="list-style-type: none"> 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. 	<div> f_{source} (Hz) <input type="text"/> </div> <div> v_{source} (m/s) <input type="text"/> </div> <div> v_{sound} (m/s) <input type="text"/> </div>
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Doppler Shift Answer Key

Walch Publishing Staff

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the 'Walch Publishing Staff' text.

Doppler Shift Answer Key:

Critical Care Echocardiography Roshni Sreedharan, Sandeep Khanna, Ajit Moghekar, Siddharth Dugar, Patrick Collier, 2024-07-17 This book provides practice questions in a case based format to prepare for the National Board of Echocardiography's examination to assess Special Competence in Critical Care Echocardiography Focused on the exam's core topics this textbook caters to physicians who are preparing for the Critical Care Echocardiography board examination Defining features of each chapter include case based scenarios with videos and supporting images meaningful and relevant multiple choice questions key take aways and a summary This book is the product of a multidisciplinary collaboration between ICU physicians Pulmonary Internal Medicine and Anesthesiology Cardiologists and Anesthesiologists This book meets the needs of physicians from various disciplines preparing for the critical care echocardiography board examination

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studies in physics and engineering and his love for storytelling are now combined into one fascinating collection About the Author Raymond Hardcastle spent his childhood in orphanages and foster homes until his teenage years and attended one room schoolhouses where he would learn from the higher grades He went on to take courses at vocational school to learn a trade Until he was seventeen he worked mowing lawns shoveling snow shining shoes and as a store clerk until he could join the navy At twenty one he was discharged and practiced his trade while attending college He now holds a BS in physics and an MBA He has worked as an engineer on a space shuttle and as an administrator of a scientific research laboratory and taught technical college classes until his retirement

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