

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.)

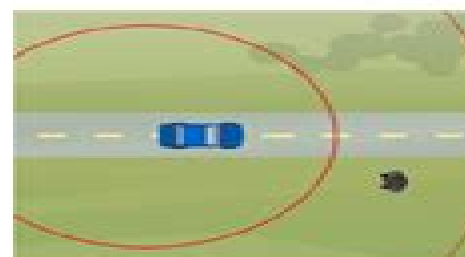
Have you ever heard a siren on a moving ambulance, fire truck, or police car? If so, what happens to the sound as the vehicle passes by?

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_{observer} is set to 340 m/s, close to the actual speed of sound.
- Set v_{source} to 0 m/s.

f_{source} (Hz)

v_{observer} (m/s)

v_{source} (m/s)

Doppler Shift Gizmo Explore Learning Answer Key

Marco Cascella

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 Explore Learning Answer Key:

Whispering the Techniques of Language: An Emotional Quest through **Doppler Shift Gizmo Explore Learning Answer Key**

In a digitally-driven earth wherever displays reign great and instant connection drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases often go unheard. However, nestled within the pages of **Doppler Shift Gizmo Explore Learning Answer Key** a captivating literary prize blinking with fresh feelings, lies a fantastic quest waiting to be undertaken. Composed by an experienced wordsmith, that wonderful opus attracts visitors on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within ab muscles cloth of each word. Within the psychological depths with this moving evaluation, we will embark upon a genuine exploration of the book is key styles, dissect their charming writing style, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

http://www.a-walhalla.hu/book/publication/index.jsp/Grade_9_2014_November_Scope.pdf

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