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 hom 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.

	Get the Gizmo ready:	f (914)
Activity A: The Doppler shift	 Click Reset (). Check that f_{source} is set to 500 Hz and v_{source} is set to 340 m/s, close to the actual speed of sound. Set v_{source} to 0 m/s. 	V (m/s)

Doppler Shift Answer Key

Roshni Sreedharan, Sandeep Khanna, Ajit Moghekar, Siddharth Dugar, Patrick Collier

Doppler Shift Answer Key:

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The book delves into Doppler Shift Answer Key. Doppler Shift Answer Key is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Doppler Shift Answer Key, encompassing both the fundamentals and more intricate discussions.

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 - This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Doppler Shift Answer Key.

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