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Doppler Shift
Answer Key

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Doppler Shift Answer
Key Vocabulary:

Doppler shift,
frequency, pitch, sonic
boom, sound waves,
wavelength Prior

Knowledge Questions
(Do these BEFORE
using the Gizmo .)

[Note: The purpose of
these questions is to
activate prior
knowledge and get
students thinking.

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Students are not expected to know the answers to the Prior Knowledge Questions.]

DopplerShiftSE_Key.pdf - Doppler Shift Answer Key ...

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

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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.)

Student Exploration: Doppler Shift (ANSWER KEY ...

[EPUB] Doppler Shift
Answer Key Observe
sound waves emitted
from a moving vehicle.
Measure the frequency

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of sound waves in front of and behind the vehicle as it moves, illustrating the Doppler effect. The frequency of sound waves, speed of the source, and the speed of sound can all be manipulated.

Doppler Shift Answer Key

Gizmo Warm-up. The change in pitch an observer hears as an object passes by is an example of the Doppler

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shift. With the Doppler Shift Advanced Gizmo, you will investigate how the speed of the moving object is related to the magnitude of the Doppler shift.. On the Gizmo, check that v observer is 0 m/s, f source is 500 Hz, v source is 100 m/s, and v sound is 340 m/s, close to the velocity of ...

Student Exploration:
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Advanced (ANSWER
KEY ...**

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Key sound waves,
speed of the source,
and the speed of sound
can all be manipulated
Motion of the vehicle
can be linear,
oscillating, or circular
Observe sound waves
emitted from a moving
vehicle Doppler Shift

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Gizmo :

[Books] Doppler Shift Answers

Observe sound waves emitted from a moving vehicle. Measure the frequency of sound waves in front of and behind the vehicle as it moves, illustrating the Doppler effect. The frequency of sound waves, speed of the source, and the speed of sound can all be manipulated. Motion of

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the vehicle can be linear, oscillating, or circular.

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Doppler shift, Part I.

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Motion of the source;
The observer sees light shifted to a shorter wavelength in diagram (c). This light is blueshifted. The star is approaching the observer. The observer sees light shifted to a longer wavelength in diagram (b). This light is redshifted. The star is receding from the observer.

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The changed pitch of the Doppler effect is due to changes in a.

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Answer Key

wave speed b , wave frequency Circle the letter of each statement about the Doppler Effect that is true. It occurs when a wave source moves towards an observer.

Doppler Effect Worksheet

Doppler Effect As shown in the above diagram, person A A A driving a car with speed $v_A = 17 \text{ m/s}$

$$v_A = 17 \text{ m/s}$$

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A = 17 m/s hears a siren sound with frequency $f_A = 737 \text{ Hz}$
 $f_A = 737 \text{ Hz}$ at a distance of $d = 141 \text{ m}$
 $d = 141 \text{ m}$ behind him, coming from an ambulance chasing his car with speed v_a m ...

Doppler Effect Practice Problems Online | Brilliant

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Prior Knowledge Questions (Do these BEFORE using the Gizmo.) The image at right shows two observers watching a car pass by. The red circles represent sound waves. 1. Which observer hears the highest pitch (tone)? B Which observer hears the lowest pitch? A 2. How can you tell?

**Copy of Student
Exploration, Doppler**
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...

Derive an equation to calculate the frequency of an oncoming sound source and a receding sound source. Also, calculate the Doppler shift that results from a moving observer and a stationary sound source. The source velocity, sound velocity, observer velocity, and sound frequency can all be manipulated.

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Doppler Shift Advanced Gizmo : ExploreLearning

pause the video and try to answer the question posed or calculate the answer to the problem under discussion. Once the video starts again, the answer to the question or the right answer ... Doppler Shift. Red and blue shifts. Light from moving objects will appear to have

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different wavelengths depending on the relative motion of the stars. Task

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Warm-up A calorimeter
is an insulated
container filled with a
liquid, usually water.
When a hot object is
placed in the
calorimeter, heat
energy is transferred

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from the object to the water and the water heats up.

Gizmo Warm Up Answers Student Exploration

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