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Student Exploration:
Doppler Shift (ANSWER KEY) Download Student Exploration: Doppler Shift Vocabulary: Doppler shift, frequency, pitch, sonic boom, sound waves, wavelength Prior Knowledge ...

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- Doppler Shift Answer

Key ... Divide each

observed frequency by

the source frequency

($f_s = 1,000$ Hz) to

complete the table.

This value represents

the magnitude of the

Doppler shift. Speed of

sound (c) Velocity of

source (v_s) $c - v_s$.

Observed frequency (f)

f / f_s . 240 m/s. 60 m/s.

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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.]

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Key Doppler Shift Answer Key

Vocabulary: Doppler shift, frequency, pitch, sonic boom, sound waves, wavelength
Prior Knowledge Questions (Do these

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BEFORE using the Gizmo .) [Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected

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Answer Key To Student Exploration Student Exploration: Doppler Shift (ANSWER KEY)

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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

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manipulated. Motion of the vehicle can be linear, oscillating, or circular.

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Doppler Shift 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

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of the source, and the speed of sound can all be manipulated.

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Doppler shift. Part I.
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.

Doppler shift -
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Washington State University

In the Doppler Effect the low

frequencymeans that the star or Galaxy are moving away from you.

Blue Shift-> Blue light has a low wavelength and a high frequency.

In the Doppler Effect the high

frequencymeans that the star or Galaxy are moving towards you. 8.

Higher Doppler

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Effect and Red Shift Answers

Doppler Effect As shown in the above diagram, person A A A driving a car with speed $v_A = 17 \text{ m/s}$ $v_A = 17 \text{ m/s}$ $v_A = 17 \text{ m/s}$ hears a siren sound with frequency $f_A = 737 \text{ Hz}$ $f_A = 737 \text{ Hz}$ $f_A = 737 \text{ Hz}$ at a distance of $d = 141 \text{ m}$ $d = 141 \text{ m}$ $d = 141 \text{ m}$ behind him, coming from an

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ambulance chasing his car with speed v a m ...

Doppler Effect Practice Problems Online | Brilliant

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KEY) Download Student
Exploration: Doppler
Shift Vocabulary:
Doppler shift,
frequency, pitch, sonic
boom, sound waves,
wavelength Prior
Knowledge Questions
(Do these BEFORE

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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?

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...

- For sound: high pitch = high frequency = short wavelength •
- Light is also a wave,

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and affected by the Doppler effect o longer wavelengths (lower frequencies) of light appear redder o The spectrum of a star moving towards you will appear blueshifted (shorter wavelengths / higher frequencies) o The spectrum of a star moving away from you will appear redshifted (longer wavelengths / lower frequencies)

Activity: Doppler

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Effect

Doppler shift is a change in the frequency of an object, when it moves toward you, or away from you. It helps astronomers in that it makes it possible to measure the radial velocity (the part of...

What is the Doppler shift? - Answers

Doppler Effect And Sonic Booms. Showing top 7 worksheets in the

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Doppler Effect And Sonic Booms - Teacher Worksheets

Help students explore this real world concept with the Doppler Shift Advanced Gizmo.

Students can investigate how the speed of the moving object is related to the magnitude of the Doppler shift. Students can investigate how the speed of the moving object is

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related to the magnitude of the Doppler shift.

Gizmos helps students understand science behind the search ...

These are the shifts for each star: A: (-6) B : (+7) C: (0) D: (+1) E: (-10) So the "size" of the shift is 6 nm (absolute value, no sign). Do the same for all of them, and rank by absolute value....

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Help with astronomy? | Yahoo Answers

Summary:: Two speakers A and B are at rest, and a listener L stays on the line that connects the two speakers (see picture). The speakers have almost the same frequency. Assume that the speed of sound in air is 340 m/s. When the listener is at rest, he/she hears

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beats with frequency 6
Hz. The...

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