

## Answers To Doppler Effect Gizmo

Doppler Shift Gizmo instructions

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

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Doppler shift greater than or less than the Doppler shift for the 100 m/s car? c. How much of a Doppler shift would you expect when the vehicle is moving very slowly? Use the Gizmo to test your prediction. 6. Some jets can fly faster than the speed of sound. Click Reset, set v source to 400 m/s, and click Play. a. What do you notice about the sound waves?

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Relativistic Doppler Effect for Light . Consider two objects: the light source and the "listener" (or observer). Since light waves traveling in empty space have no medium, we analyze the Doppler effect for light in terms of the motion of the source relative to the listener.

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