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## Student Exploration: Doppler Shift

**Vocabulary:** Doppler shift, frequency, pitch, sonic boom, sound waves, wavelength

**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?

The sound is quiet when further away from you, but when the vehicle is closer the sound becomes louder.

The change in the sound that you hear is called the **Doppler shift**.

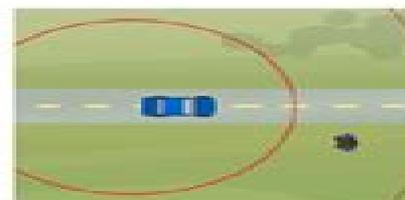
### Gizmo Warm-up

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? A siren effected by the doppler shift.

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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?  
The sound waves behind the car are further away compared to the front of the car. This is probably due to the origin of the sound coming from the front of the car.

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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: 550 Wavelength behind car: 950



# Explore Learning Gizmos Doppler Shift Answer Key

**Michael Rajnik**



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