

Name: Neha k. Rhys k. Sophie P. Date: 3/7/22

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.

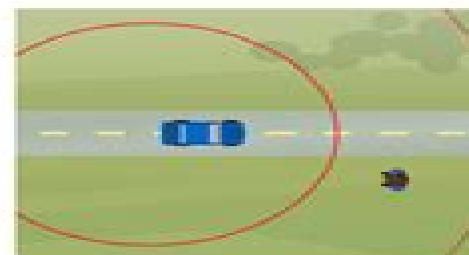
The change in the sound that you hear is called the **Doppler shift**.

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.



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.

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

Student Exploration Doppler Shift Gizmo Answers

**Matthew Bobrowsky, Mikko
Korhonen, Jukka Kohtamäki**



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Using Physics Gadgets and Gizmos, Grades 9-12 Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamäki, 2014-03-01 What student or teacher can resist the chance to experiment with Rocket Launchers Drinking Birds Dropper Poppers Boomwhackers Flying Pigs and more The 54 experiments in Using Physics Gadgets and Gizmos Grades 9 12 encourage your high school students to explore a variety of phenomena involved with pressure and force thermodynamics energy light and color resonance buoyancy two dimensional motion angular momentum magnetism and electromagnetic induction The authors say there are three good reasons to buy this book 1 To improve your students thinking skills and problem solving abilities 2 To acquire easy to perform experiments that engage students in the topic 3 To make your physics lessons waaaaay more cool The phenomenon based learning PBL approach used by the authors two Finnish teachers and a U S professor is as educational as the experiments are attention grabbing Instead of putting the theory before the application PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why Students engage in the activities not as a task to be completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physics facts Using Physics Gadgets and Gizmos can help them learn broader concepts useful critical thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Boomwhackers and Flying Pigs both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at <http://www.arborsci.com> nsta hs kits

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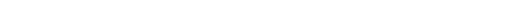
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