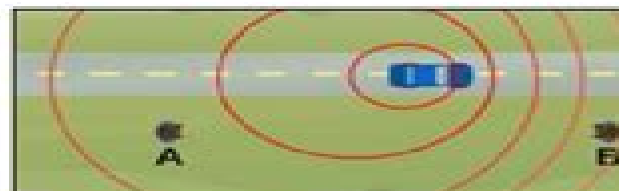


Student Exploration: Doppler Shift Advanced

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?

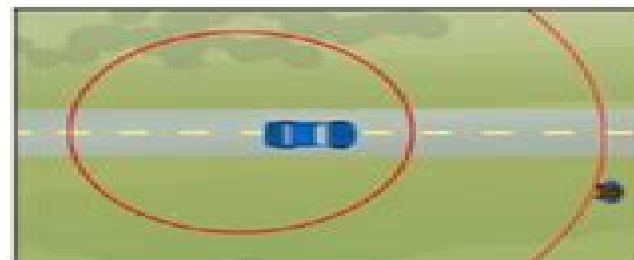
A

2. How can you tell?

Pitch is also like frequency, so because the frequency is higher for B, that means they hear a higher pitch.

Gizmo Warm-up

The change in pitch an observer hears as an object passes by is an example of the **Doppler 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 sound in air. Click **Play** (▶).

1. Click **Pause** (⏏). How does the distance between sound waves compare in front of and behind the car?

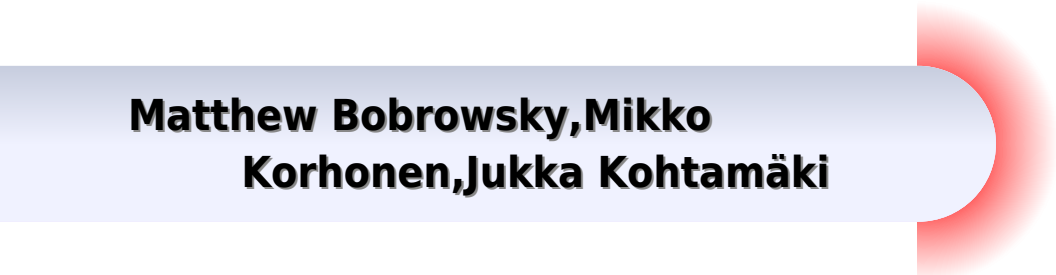
It looks the same?

2. How will the sound of the car change as the car passes the observer?

It will probably get fainter because there's the car blocking the waves.

Student Exploration Doppler Shift Gizmo Answers

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



Student Exploration Doppler Shift Gizmo Answers:

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

The Doppler Effect Thomas Perrott Gill, 1965

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