

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

Highlight your answers in either **GREEN** / **BLUE** / OR **YELLOW**

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

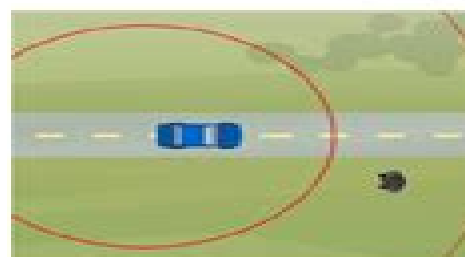
Have you ever heard a siren on a moving ambulance, fire truck, or police car? If so, what happens to the sound as the vehicle passes by?

Sometimes when cars are passing I usually hear the car running and sometimes I hear the horn of the car.

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?

I hear I police siren

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?**

Something that I notice is the length between them is about 900cm

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: 600 cm

Wavelength behind car: 900 cm

Why do you think the waves in front of the car have a shorter wavelength than the waves behind the car?

I think that the reason that the front is shorter than the back is because the car is chasing the waves and the waves in the back are running away from the car.

Activity A: The Doppler shift

Get the Gizmo ready:

- Click **Reset** ().
- Check that f_{source} is set to 500 Hz and v_{sound} is set to 340 m/s, close to the actual speed of sound.
- Set v_{source} to 0 m/s.

f_{source} (Hz)

v_{sound} (m/s)

v_{source} (m/s)

Answer Sheet To Exploring Learning Doppler Shift

Charles E. Long



Answer Sheet To Exploring Learning Doppler Shift:

Innovative Technology-based Solutions for Primary, Secondary and Tertiary STEM Education Cristina Hava Muntean, Diana Bogusevschi, Gabriel-Miro Muntean, 2019-09-23 This book presents innovative technology enhanced learning solutions for STEM education proposed by the EU Horizon 2020 funded NEWTON project by first highlighting the benefits and limitations of existing research work e learning systems and case studies that embedded technology in the teaching and learning process NEWTON s proposed innovative technologies and pedagogies include adaptive multimedia and multiple sensorial media virtual reality fabrication and virtual labs gamification personalisation game based learning and self directed learning pedagogies The main objectives are to encourage STEM education among younger generations and to attract students to STEM subjects making these subjects more appealing and interesting Real life deployment of NEWTON technologies and developed educational materials in over 20 European educational institutions at primary secondary and tertiary levels demonstrated statistical significant increases in terms of learner satisfaction learner motivation and knowledge acquisition *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science*, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *Mathematics & Science in the Real World*, 2000 **Modules**, 2005 NASA Technical Memorandum, 1994 **ENC Focus**, 2000 **Progress Report on Research Supported by Grants from the Defense Research Board of Canada** University of Toronto. Institute for Aerospace Studies, 1967 Engineering Problems of Manned Interplanetary Exploration, 1963 **Multimedia Learning** Richard E. Mayer, 2020-07-09 Advances in computer graphic technologies have inspired new efforts to understand the potential of multimedia instruction as a means of promoting human learning In *Multimedia Learning Third Edition* Richard E Mayer takes an evidence based approach to improving education using well designed multimedia instruction He reviews 15 principles of multimedia instructional design that are based on more than 200 experimental research studies and grounded in a cognitive theory of how people learn from words and graphics The result is the latest instalment of what Mayer calls the Cognitive Theory of Multimedia Learning a theory introduced in previous editions of *Multimedia Learning* and in *The Cambridge Handbook of Multimedia Learning Second Edition* This edition provides an up to date and systematic summary of research studies on multimedia learning supplemented with complementary evidence from around the globe It is well suited to graduate and undergraduate courses in psychology education computer science communication instructional design and game design **A Voyage of Exploration**, 1986 Learning and Leading with Technology, 2004 **Journal of Scientific Exploration**, 1990 **Space Science: Teacher's ed**, 2005 College Physics Jerry D. Wilson, 2000

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