

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.

- 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

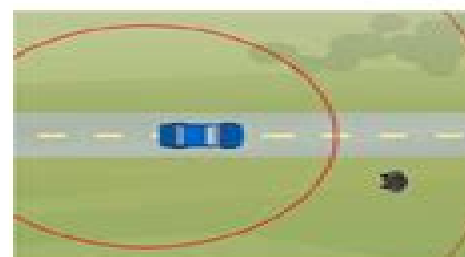
- Click **Play** () and observe the sound waves emitted from the moving car. Click **Pause** () and compare the sound waves in front of and behind the car. **What do you notice?**

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


- 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: <ul style="list-style-type: none"> Click Reset (). Check that f_{source} is set to 500 Hz and v_{observer} is set to 340 m/s, close to the actual speed of sound. Set v_{source} to 0 m/s. 	f_{source} (Hz) <input type="text"/> v_{observer} (m/s) <input type="text"/> v_{source} (m/s) <input type="text"/>
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Doppler Shift Gizmo Quiz Answers

Thomas Perrott Gill

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Doppler Shift Gizmo Quiz Answers:

The Doppler Effect Thomas Perrott Gill, 1965

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Table of Contents Doppler Shift Gizmo Quiz Answers

1. Understanding the eBook Doppler Shift Gizmo Quiz Answers
 - The Rise of Digital Reading Doppler Shift Gizmo Quiz Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Doppler Shift Gizmo Quiz Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Doppler Shift Gizmo Quiz Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Doppler Shift Gizmo Quiz Answers
 - Personalized Recommendations
 - Doppler Shift Gizmo Quiz Answers User Reviews and Ratings
 - Doppler Shift Gizmo Quiz Answers and Bestseller Lists

5. Accessing Doppler Shift Gizmo Quiz Answers Free and Paid eBooks
 - Doppler Shift Gizmo Quiz Answers Public Domain eBooks
 - Doppler Shift Gizmo Quiz Answers eBook Subscription Services
 - Doppler Shift Gizmo Quiz Answers Budget-Friendly Options
6. Navigating Doppler Shift Gizmo Quiz Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Doppler Shift Gizmo Quiz Answers Compatibility with Devices
 - Doppler Shift Gizmo Quiz Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Doppler Shift Gizmo Quiz Answers
 - Highlighting and Note-Taking Doppler Shift Gizmo Quiz Answers
 - Interactive Elements Doppler Shift Gizmo Quiz Answers
8. Staying Engaged with Doppler Shift Gizmo Quiz Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Doppler Shift Gizmo Quiz Answers
9. Balancing eBooks and Physical Books Doppler Shift Gizmo Quiz Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Doppler Shift Gizmo Quiz Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Doppler Shift Gizmo Quiz Answers
 - Setting Reading Goals Doppler Shift Gizmo Quiz Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Doppler Shift Gizmo Quiz Answers
 - Fact-Checking eBook Content of Doppler Shift Gizmo Quiz Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Doppler Shift Gizmo Quiz Answers Introduction

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