

**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.)

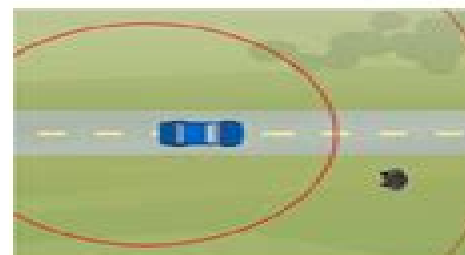
*Have you ever heard a siren on a moving ambulance, fire truck, or police car? If so, what happens to the sound as the vehicle passes by?*

*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  $f_{\text{source}}$  is set to 500 Hz and  $v_{\text{observer}}$  is set to 340 m/s, close to the actual speed of sound.
- Set  $v_{\text{source}}$  to 0 m/s.

$f_{\text{source}}$  (Hz)

$v_{\text{source}}$  (m/s)

$v_{\text{observer}}$  (m/s)

# Doppler Shift Advanced Gizmo Answer Key

**Sebastian Brünink**

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

## **Doppler Shift Advanced Gizmo Answer Key:**

Doppler Shift Advanced Gizmo Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Doppler Shift Advanced Gizmo Answer Key : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

[https://ndigital.gulfbank.com/files/publication/index.jsp/Getting\\_To\\_Yes\\_In\\_Korea.pdf](https://ndigital.gulfbank.com/files/publication/index.jsp/Getting_To_Yes_In_Korea.pdf)

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### **Doppler Shift Advanced Gizmo Answer Key Introduction**

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