

Sound Waves Investigation Worksheet

Part 1 Pre-lab Questions

1. For a wave, describe the relationship between frequency and wavelength.

Wavelength and frequency have an opposite relationship: as wavelength increases, frequency will follow as well, and vice versa.

2. List the following mediums in order from fastest to slowest in terms of sound wave speed.

Air (20°C), Water (20°C), Glass, Water (0°C), Seawater (20°C)

Glass, Seawater (20°C), Water (0°C), Water (20°C), Air (20°C)

3. Explain why the speed of sound is different in air compared to water.

Since sound waves travel quicker in harder media—which includes more particles—water is a more firm medium, which explains why it moves faster there.

4. Answer the following questions in terms of a wave's frequency, wavelength, amplitude, and energy.

a. Describe the characteristics of a high pitch wave.

This will have a high frequency

b. Describe the characteristics of a high-volume wave.

Still, the intensity of them will be quite high.

Part 2 Doppler Effect Investigation

1. Generate your prediction and record your hypothesis:

If the sound source is moving ____away_____, then a stationary observer will hear a _____low_____ pitch.

2. Collected Data

Data Table – Character 1, the observer

Selected Pitch	Pitch Observations – away from the observer
Low note	When the low note came towards the observer, it was at first weak and then much louder.

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The Top Books of the Year Sound Worksheet Murray Answers 13 1 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating 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 Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Sound Worksheet Murray Answers 13 1 : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling 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 exceptional and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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