

Doppler Effect

Key Concepts

In this lesson, you will be taught how to

- Define Doppler effect
- Predict changes in the observed frequencies as the source and the observer move in relation to each other
- Use the Doppler effect equation to solve problems
- Tell whether the sound is subsonic or supersonic
- Find the Mach number for a moving source of sound, especially jets

Terminology & definitions

- Doppler Effect - the perceived change in the frequency of sound as the source and/or the listener move in relation to each other.
- Mach number - the ratio of the velocity of source to the velocity of sound.

X-planation of key concepts and terminologies

The observed frequency is greater when the source and the listener move towards each other, and is lower when the source and/or the listener move away from each other. The following Doppler equation is used to calculate for the perceived/observed frequency:

$$f_o = \left(\frac{v \pm v_o}{v \pm v_s} \right) f_s$$

When the speed of the source is smaller than the speed of sound, the sound is said to be subsonic. When the speed of the source is greater than the speed of sound, the sound produced, is said to be supersonic. In a situation where the speed of the source equals the speed of sound, a sound barrier is created. In this case, the Mach number equals 1 since it is given by the ratio of the velocity of the source and that of sound in air. A sonic boom will be produced by a moving object if its velocity exceeds the velocity of sound in air, e.g., a jet. In this case, the Mach number is greater than 1.

Memorandum For Physical Science Exemplar Grade 1

Jiyuan Zhang



Memorandum For Physical Science Exemplar Grade 1:

Memorandum For Physical Science Exemplar Grade 1: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. Memorandum For Physical Science Exemplar Grade 1 : 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 expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Memorandum For Physical Science Exemplar Grade 1 : Taylor Jenkins Reid's "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. Reid's absorbing 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 captivating 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, entrancing 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 masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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