

P. Sci. Waves **Key**

Put all answers on a separate sheet of notebook paper.

- Mechanical waves need a medium through which to transport energy.
- The particles in a surface water wave move in a circle (back-&-forth / up & down).
- Waves in which the particles of medium move at right angles to the direction of the wave are transverse waves.
- The wavelength of a wave is measured from the crest of one wave to the crest of the next.
- If the wavelength of a given wave decreases, you know that its frequency will increase.
- Two waves have the same frequency and wavelength, but the first wave has a greater amplitude. The energy of the first wave greater than that of the second.
- Wave A has a greater frequency than wave B, but the amplitude of the two waves is the same. The energy of wave A is equal to that of wave B.
- The unit for frequency is the hertz.
- A wave will travel only as long as it has energy to carry.
- When you squeeze together the coils of a spring and then release them, you are creating a compressional wave.
- Waves in which the particles of the medium move only in the same direction as the motion of the wave are compressional waves.
- You are creating a wave on a spring. If you start shaking the spring more slowly, the wavelength of the resulting wave will increase.
- If you are lying on a raft, and you notice that the number of waves that go past the raft increases, you also find that the distance between each crest decreases.
- Wave A carries more energy than wave B. Wave B has a smaller amplitude than wave A.
- The energy a wave carries is measured by its amplitude.
- For a given wave, if the frequency doubles, the wavelength is halved.
- When a wave passes from a less dense medium to a more dense medium, the speed may change.
- Repeating disturbances that transfer energy through matter or space are waves.

- The two types of mechanical waves are transverse and compressional (longitudinal).
- If the frequency of a water wave changes, its wavelength must also change.
- The symbol λ (lambda) stands for the wavelength.



Figure 11-1

- In Figure 11-1, identify the following structures:
B wavelength, A crest, C amplitude
- Speed can be determined by dividing the distance traveled by the time. The water waves in a lake travel 4.4 m in 2.0 s. What is the speed of the waves? $y = d/t$ $v = 4.4\text{m} / 2.0\text{s}$ $v = 2.2\text{ m/s}$
- An ocean wave has a frequency of 2.0 Hz with a wavelength of 10 m. What is the velocity of the wave? $v = f \times \lambda$ $v = 2.0\text{ Hz} \times 10\text{ m}$
 $v = 20\text{ m/s}$



- The wavelength of the wave in the diagram is 1.5 m.
- The amplitude of the above wave is 0.5 m.
- A man is standing on the shore of a beach, up to his knees in water. Every 5 seconds a wave breaks on him. What is the period of the wave? 5 seconds

Mechanical Waves Review Matching Answer Key

Lei Huang



Mechanical Waves Review Matching Answer Key:

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focus and look for data collection methods and meaningful follow up strategies Get all teachers involved and actively participating Evaluate the walkthrough process and measure its effectiveness Use walkthroughs to support professional development related to the Common Core State Standards This book demonstrates that when teachers learn from one another in a cycle of continuous professional growth through observation shared inquiry dialogue and follow up they develop a sense of collegiality and a common mission By opening their doors to their peers they also contribute to broader school improvement efforts that positively affect teaching and learning throughout the school

Applied Mechanics Reviews,1974 *Wireless Communication Electronics* Robert Sobot,2012-02-21 This book is intended for senior undergraduate and graduate students as well as practicing engineers who are involved in design and analysis of radio frequency RF circuits Detailed tutorials are included on all major topics required to understand fundamental principles behind both the main sub circuits required to design an RF transceiver and the whole communication system Starting with review of fundamental principles in electromagnetic EM transmission and signal propagation through detailed practical analysis of RF amplifier mixer modulator demodulator and oscillator circuit topologies all the way to the system communication theory behind the RF transceiver operation this book systematically covers all relevant aspects in a way that is suitable for a single semester university level course

Railway and Engineering Review ,1899 **IETE Technical Review** ,2003 *The ERIC Review* ,1991 Provides information on programs research publications and services of ERIC as well as critical and current education information

The Railway and Engineering Review Walter Mason Camp,1899

Mechanical Waves Review Matching Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled 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 skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Mechanical Waves Review Matching 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 captivating 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating 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 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.

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