

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 Key

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Mechanical Waves Review Key:

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Fundamentals of Physics, Part 2 (Chapters 12-20) David Halliday, Robert Resnick, Jearl Walker, 2004-01-06 **Review of Reviews for Australasia** William Henry Fitchett, Henry Stead, William H. Judkins, 1900 **The Review of Reviews** Albert Shaw, 1893

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Table of Contents Mechanical Waves Review Key

1. Understanding the eBook Mechanical Waves Review Key
 - The Rise of Digital Reading Mechanical Waves Review Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Waves Review Key
 - 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 Mechanical Waves Review Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Waves Review Key
 - Personalized Recommendations

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

- 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

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