

P. Sol. Waves Key

Put all answers on a separate sheet of notebook paper.

1. Mechanical waves need a medium through which to transport energy.
2. The particles in a surface water wave move in a circle (back-&-forth / up & down).
3. Waves in which the particles of medium move at right angles to the direction of the wave are transverse waves.
4. The wavelength of a wave is measured from the crest of one wave to the crest of the next.
5. If the wavelength of a given wave decreases, you know that its frequency will increase.
6. 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.
7. 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.
8. The unit for frequency is the hertz.
9. A wave will travel only as long as it has energy to carry.
10. When you squeeze together the coils of a spring and then release them, you are creating a compressional wave.
11. Waves in which the particles of the medium move only in the same direction as the motion of the wave are compressional waves.
12. You are creating a wave on a spring. If you start shaking the spring more slowly, the wavelength of the resulting wave will increase.
13. 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.
14. Wave A carries more energy than wave B. Wave B has a smaller amplitude than wave A.
15. The energy a wave carries is measured by its amplitude.
16. For a given wave, if the frequency doubles, the wavelength is halved.
17. When a wave passes from a less dense medium to a more dense medium, the speed may change.
18. Repeating disturbances that transfer energy through matter or space are waves.

19. The two types of mechanical waves are transverse and compressional (longitudinal).

20. If the frequency of a water wave changes, its wavelength must also change.
21. The symbol λ (lambda) stands for the wavelength.



Figure 11-1

22. In Figure 11-1, identify the following structures:
B wavelength, A crest, C amplitude
23. 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? $v = d/t$ $v = 4.4\text{ m} / 2.0\text{ s}$ $v = 2.2\text{ m/s}$
24. An ocean wave has a frequency of 2.0 Hz with a wavelength of 10 m. What is the velocity of the wave? $v = f \lambda$ $v = 2.0\text{ Hz} \times 10\text{ m}$
 $v = 20\text{ m/s}$



25. The wavelength of the wave in the diagram is 1.5 m.
26. The amplitude of the above wave is 0.5 m.
27. 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

Study Guide Waves And Sounds

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Table of Contents Study Guide Waves And Sounds

1. Understanding the eBook Study Guide Waves And Sounds
 - The Rise of Digital Reading Study Guide Waves And Sounds
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Waves And Sounds
 - 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 Study Guide Waves And Sounds
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Waves And Sounds
 - Personalized Recommendations
 - Study Guide Waves And Sounds User Reviews and Ratings
 - Study Guide Waves And Sounds and Bestseller Lists
5. Accessing Study Guide Waves And Sounds Free and Paid eBooks
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 - Study Guide Waves And Sounds eBook Subscription Services
 - Study Guide Waves And Sounds Budget-Friendly Options
6. Navigating Study Guide Waves And Sounds eBook Formats

- ePub, PDF, MOBI, and More
- Study Guide Waves And Sounds Compatibility with Devices
- Study Guide Waves And Sounds Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Study Guide Waves And Sounds
- Highlighting and Note-Taking Study Guide Waves And Sounds
- Interactive Elements Study Guide Waves And Sounds

8. Staying Engaged with Study Guide Waves And Sounds

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Study Guide Waves And Sounds

9. Balancing eBooks and Physical Books Study Guide Waves And Sounds

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Study Guide Waves And Sounds

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Study Guide Waves And Sounds

- Setting Reading Goals Study Guide Waves And Sounds
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Study Guide Waves And Sounds

- Fact-Checking eBook Content of Study Guide Waves And Sounds
- 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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