

## 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  $\lambda$  (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 And Sound Study Guide Answers**

**Raymond A. Serway**



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