P. Sci. Waves Key

Put all answers on a separate sheet of notebook paper.

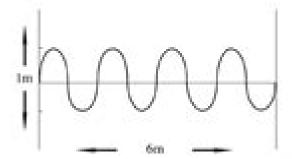
- Mechanical waves need a __medium_ through which to transport energy.
- The particles in a surface water wave move _in a circle (back-&forth / up & down).
- Waves in which the particles of medium move at right angles to the direction of the wave are _transcrie_ waves.
- The _wavelength_ of a wave is 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 _income_
- 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.
- 8. The unit for frequency is the _bertr_.
- 9. 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 <u>correctional</u> 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 ruft, and you notice that the number of waves that go past the ruft increases, you also find that the distance between each crest <u>decreases</u>.
- 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 _.
- 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 <u>speed</u> 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 <u>wavelength</u> must also change
- 21. 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
- 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? y = 61. y = 4.4m/2.0s y = 2.2 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 x k v = 2.0 Hz x 10 m v = 20 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

Mechanical Wave Review Answers

Thomas Griffiths



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