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 k (lambda) stands for the __wavelength _



Figure 11-1

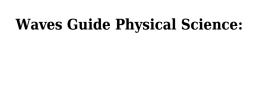
- In Figure 11-1, identify the following structures:
 B wavelength. A crest. C amplitude
- 23. Speed can be determined by dividing the distance traveled by the time. The water waves in a lake travel 4.4 m in 2.0 s. What is the speed of the waves? y = 61. y = 4.4m/2.0s y = 2.2 m/s
- 24. An ocean wave 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

Waves Guide Physical Science

Daniela Niemeyer



Unveiling the Magic of Words: A Review of "Waves Guide Physical Science"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "Waves Guide Physical Science," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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