

Unit 4: Waves



Across

- 4. The number of wave lengths that pass given points in 1 second.
- 7. When a wave vibrates in the direction of propagation.
- 8. Where the displacement of the medium is at the maximum.
- 9. Transverse wave one half the distance between the crest and trough.
- 13. Bending of a wave as it moves from one medium into another.
- 14. The rhythmic disturbance that carries energy but not matter
- 16. A type of mechanical wave which matter in medium moves forward and backward along the direction the wave travels.

- 18. The bending of a wave when approaching a barrier.

- 20. A type of wave that can only travel through matter.

Down

- 1. The state of being squished down or made smaller.
- 2. The point where 2 systems, subjects, and/or organizations meet/ interact.
- 3. The distance between the crests of a wave.
- 5. Waves that are created as a result of vibrations between an electric field and a magnetic field.
- 6. The diminution in the density of and object (mainly air or gas).

- 10. A sound or series of sounds caused by the reflection or bouncing back of sound waves from a surface back to the listener.

- 11. Occurs when a wave strikes an object or surface and bounces off.

- 12. The wave energy causes matter in the medium.

- 15. Minimum or lowest point in a wave.

- 17. The quality of a sound governed by the rate of vibrations producing it.

- 19. A material through with electromagnetic waves propagate.

Word Bank

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|--------------|-----------------------|---------------------|-------------------|
| Medium | Interference | Transverse Wave | Longitudinal Wave |
| Reflection | Mechanical Waves | Wavelength | Pitch |
| Rare Faction | Trough | Compressional Waves | Frequency |
| Amplitude | Electromagnetic Waves | Crest | Refraction |
| Diffraction | Wave | Compression | Echo |