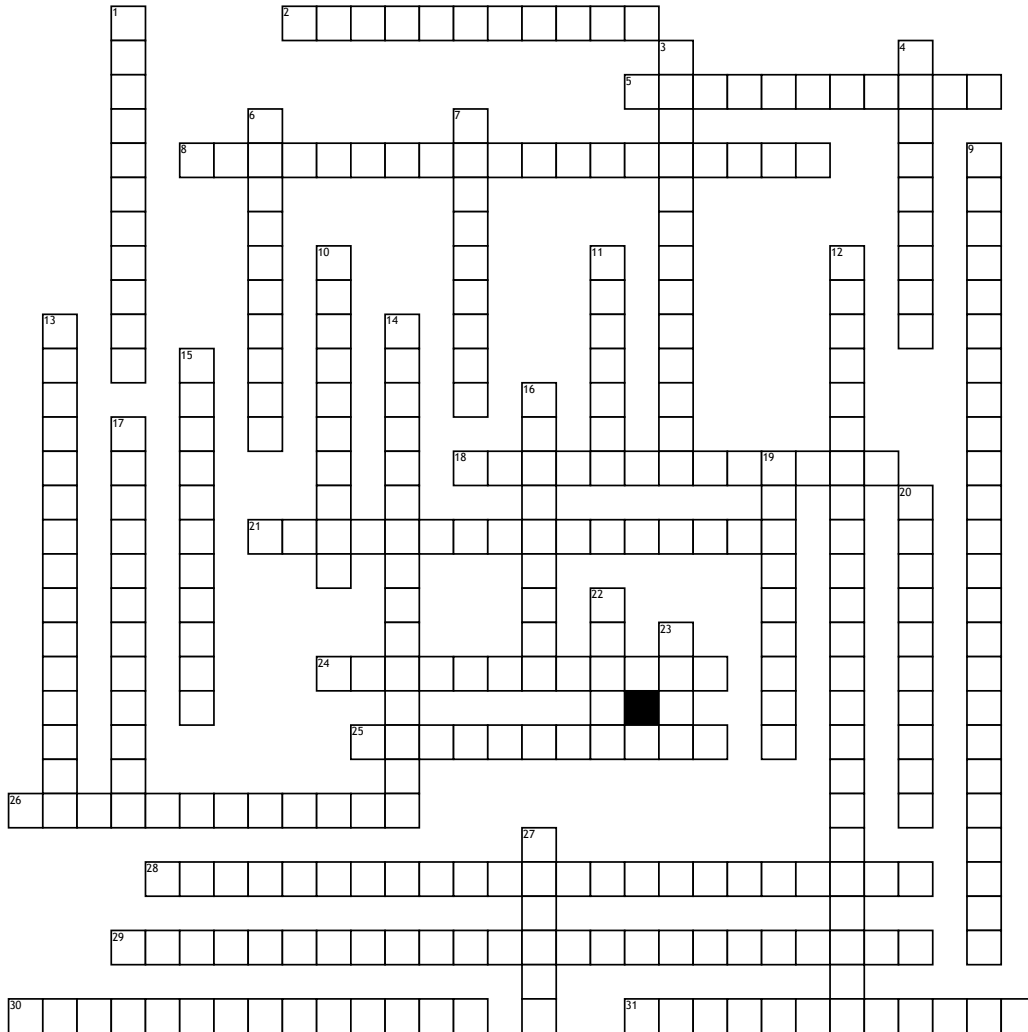


Waves



Across

- 2. The bunched up area of a wave. Has the most energy.
- 5. The bunched up area of a wave. Has the most energy.
- 8. This type of wave can travel through space.
- 18. A change in the apparent frequency of a wave as observer and source move toward or away from each other
- 21. This wave moves parallel.
- 24. The interaction between waves that meet
- 25. When a wave is spaced out and has the least energy.
- 26. Electromagnetic waves with wavelengths shorter than radio waves, but longer than visible light
- 28. Complete range of electromagnetic waves placed in order of increasing frequency
- 29. Interference that occurs when two waves combine to make a wave with a larger amplitude
- 30. This wave must travel through a medium such as a solid, liquid, or gas
- 31. Electromagnetic waves that are visible to the human eye

Down

- 1. A lens that is thicker at the edges than in the middle that bends light rays away from one another
- 3. A mirror with a surface that curves inward like the inside of a bowl
- 4. A repeated back and forth or up and down motion
- 6. The bouncing back of a wave when it hits a surface through which it cannot pass
- 7. Electromagnetic waves with the shortest wavelengths and highest frequencies
- 9. Energy transferred through space by electromagnetic waves
- 10. A lens that is thicker in the middle than at the edges and bends light rays towards one another
- 11. A unit used to compare the loudness of different sounds
- 12. Interference that occurs when two waves combine to make a wave with a smaller amplitude
- 13. States that the angle of incidence is equal to the angle of reflection
- 14. Electromagnetic waves with wavelengths shorter than visible light but longer than x-rays

- 15. The bending of waves around a barrier or through an opening
- 16. What is the distance between the peak of a wave and the rest position of a wave's medium?
- 17. A mirror with a surface that curves outward
- 19. The number of waves in a given amount of time.
- 20. The bending of a wave as it passes at an angle from one medium to another
- 22. The highest point of a wave
- 23. A reflected sound wave
- 27. A slinky is used to make a longitudinal wave. What is the slinky acting as?

Word Bank

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|-------------------------|--------------------------|--------------------------|--------------|
| DECIBEL | REFLECTION | FREQUENCY | INFRAREDRAYS |
| LAWOFREFLECTION | ELECTROMAGNETICRADIATION | COMPRESSION | RAREFACTION |
| GAMMARAYS | DOPPLEREFFECT | VISIBLELIGHT | ECHO |
| INTERFERENCE | CONVEXMIRROR | AMPLITUDE | REFRACTION |
| ELECTROMAGNETICSPECTRUM | ELECTROMAGNETICWAVE | DESTRUCTIVEINTERFERENCE | CONCAVELENS |
| CONCAVEMIRROR | MEDIUM | MECHANICALWAVE | CONVEXLENS |
| ULTRAVIOLETTRAYS | CREST | DIFFRACTION | COMPRESSION |
| VIBRATION | LONGITUDINALWAVE | CONSTRUCTIVEINTERFERENCE | |