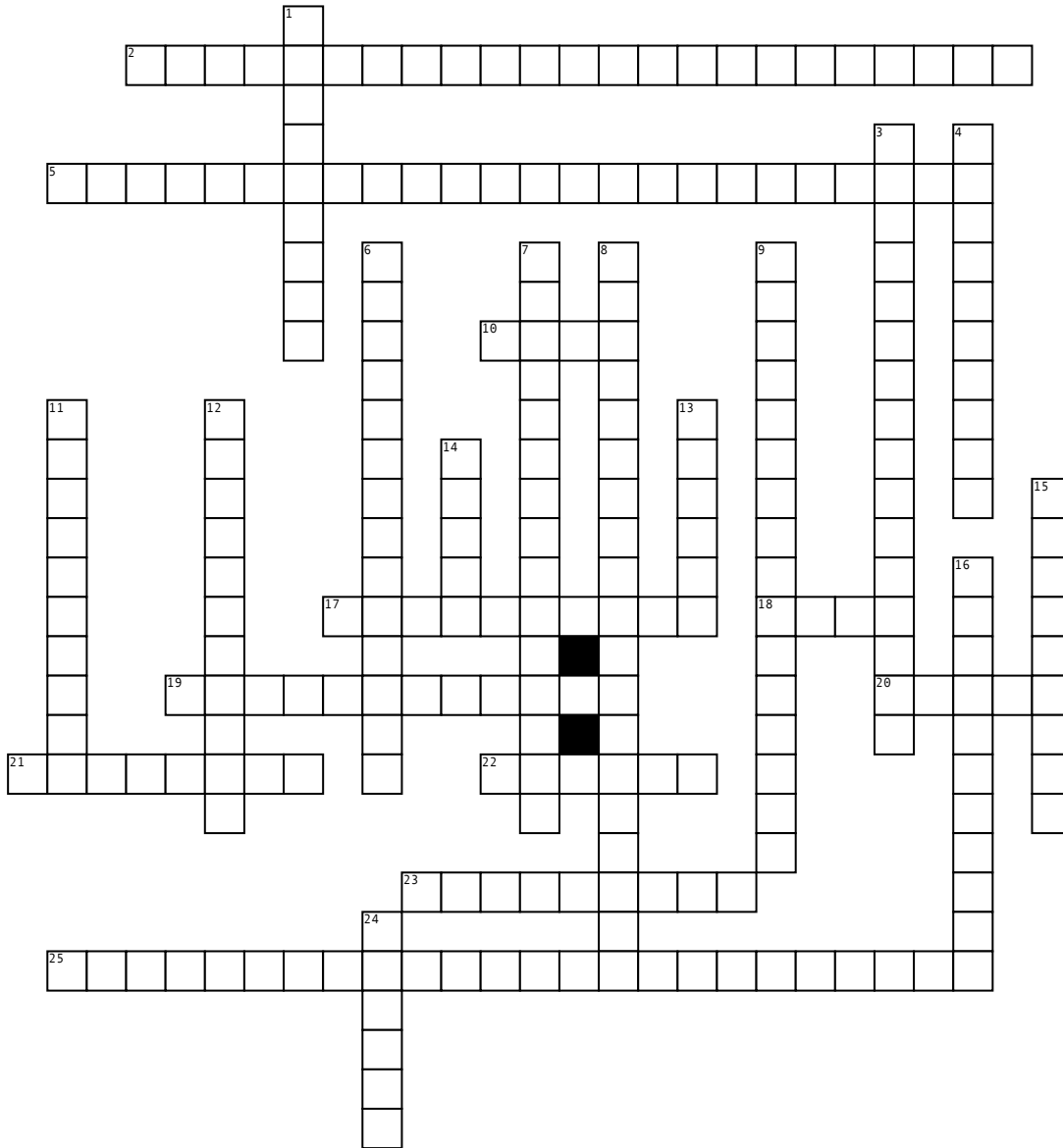


Waves, Sound, and Light Vocab. Part 1



Across

- 2. The interference of two waves in opposite phases resulting in the reduction or cancelling out of the waves' amplitudes.
- 5. The interference of two or more waves in the same phase resulting in their mutual reinforcement and producing a single enlarged amplitude which is equal to the sum of the amplitude of each wave
- 10. A disturbance or vibration which travels through a medium.
- 17. Distance between corresponding points of two consecutive waves
- 18. Is a point along a standing wave where the wave has minimum amplitude
- 19. Combination of two waves moving in opposite directions, each having the same amplitude and frequency.
- 20. Is the point on a wave with the maximum value of upward displacement within a cycle
- 21. Is a point along a standing wave where there is the maximum amplitude
- 22. Anything that a wave travels through
- 23. The increase in amplitude of oscillation of an electric or mechanical system exposed to a periodic force whose frequency is equal or very close to the natural undamped frequency of the system

- 25. Two waves can occupy the same place at the same time

Down

- 1. The number of crests of a wave that move past a given point in a given unit of time. Most common unit is the hertz (Hz), corresponding to one crest per second. Energy of the wave.
- 3. Is the angle between a ray incident on a surface and the line perpendicular to the surface at the point of incidence, called the normal
- 4. The changing in direction of a wave resulting from interaction with a boundary
- 6. Is a type of vibration in which a force is repeatedly applied to a mechanical system
- 7. Oscillations are perpendicular to the direction the wave is traveling
- 8. A wave of energy that is both an electric and a magnetic wave oscillating in two directions at the same time
- 9. Oscillations are in the same direction as the wave
- 11. The bending or change in direction as a wave crosses from one medium into another
- 12. The bending of a wave around a barrier or obstacle

- 13. Is the opposite of a crest, so minimum or lowest point in a cycle.

- 14. One complete wave or cycle
- 15. The maximum displacement or distance moved by a point on a vibrating body or wave measured from its equilibrium position. It is equal to one-half the length of the vibration path. Intensity of a wave. Sound- loudness Light- brightness
- 16. Is the reduction of an item's density, the opposite of compression
- 24. Time it takes to make one complete cycle or wave. It is the inverse of the frequency