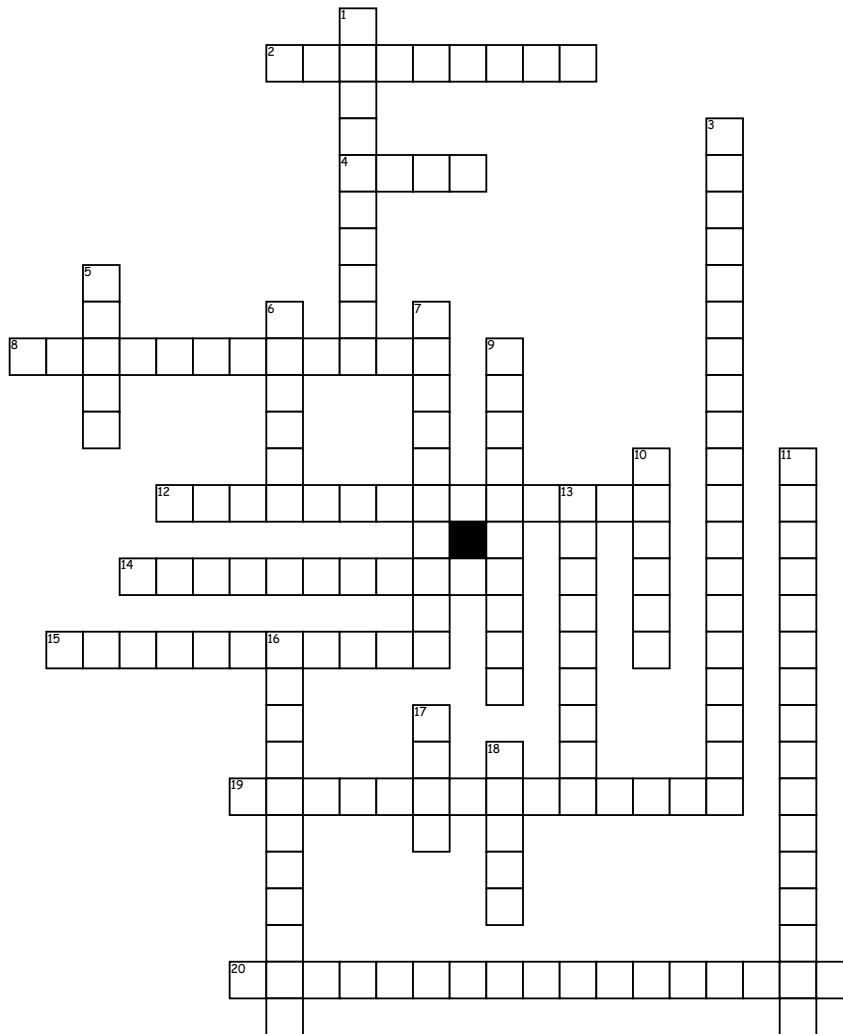


Unit 4: Waves Crossword Puzzle



Across

- 2. how many waves can pass a given point per second (measured in Hertz)
- 4. A repeated sound that is caused by the reflection of sound waves from a surface
- 8. occurs when waves that overlap combine to form a new wave
- 12. a wave that is NOT capable of transmitting it's energy though a vacuum
- 14. an area where the particles in a medium are spread out
- 15. a change in the direction of a wave when the wave finds an obstacle or an edge, such as an opening
- 19. a wave in which the vibration is at right angles to the direction in which the wave is traveling

20. a longitudinal wave propagated by the elastic compression of the medium.

Down

- 1. the bouncing of a wave off a surface
- 3. a form of energy that can move through the vacuum of space
- 5. the quality that allows us to classify a sound as relatively high or low. It is determined by frequency of sound wave vibrations
- 6. the lowest point of a wave
- 7. the change of in direction of a wave as it change speed
- 9. distance between one point of a wave and the nearest point just like it
- 10. the substance or material that carries a mechanical wave

11. a wave in which the particles of the medium vibrate parallel to the direction of wave motion

- 13. height of the wave
- 16. the part of longitudinal wave where the particles of the medium are close together
- 17. the transfer of energy without the transfer of matter
- 18. the highest point of a wave

Word Bank

- | | | | |
|-------------|--------------------|----------------------|-----------------|
| medium | longitudinal wave | pitch | echo |
| compression | rare faction | electromagnetic wave | mechanical wave |
| diffraction | compressional wave | wavelength | crest |
| reflection | frequency | wave | refraction |
| amplitude | interference | transverse wave | trough |