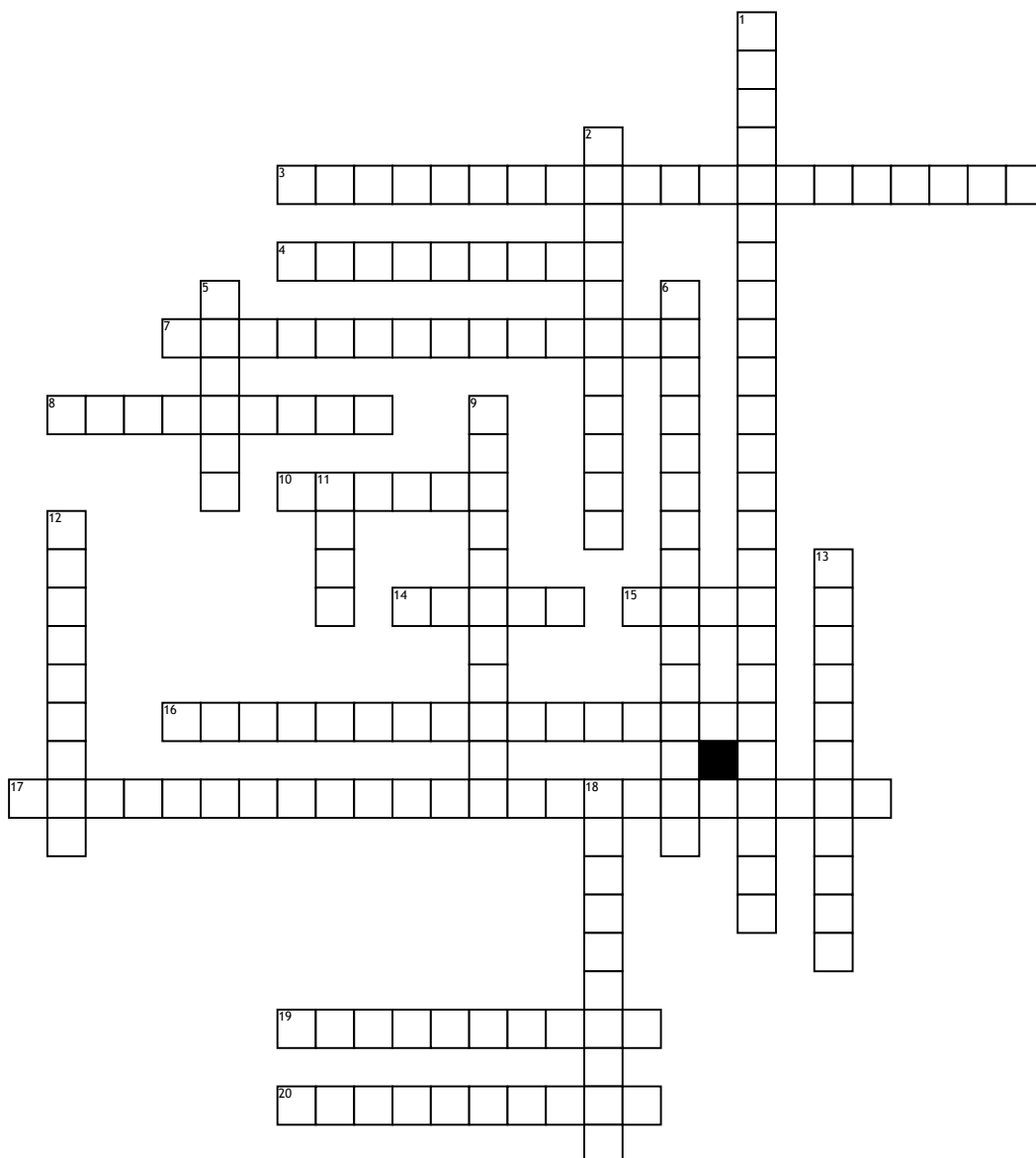


Waves Vocabulary



Across

3. synchronized oscillations of electric and magnetic fields that propagate at the speed of light through a vacuum
 4. the maximum extent of a vibration or oscillation, measured from the position of equilibrium
 7. a wave in which the particles of the medium move perpendicularly to the direction the wave is traveling
 8. the number of waves produced in a certain amount of time
 10. a physical environment in which phenomena occur
 14. reach the top of (something such as a hill or wave)
 15. a periodic disturbance in a solid, liquid, or gas as energy is transmitted through a medium

16. a wave vibrating in the direction of propagation

17. when the crest of one wave meets the trough of another, and the result is a lower total amplitude

19. the distance between successive crests of a wave, especially points in a sound wave or electromagnetic wave

20. the throwing back by a body or surface of light, heat, or sound without absorbing it

Down

1. when two waves meet in such a way that their crests line up together

2. diminution in the density of something, especially air or a gas

5. the lowest point the medium sinks to

6. a wave that is an oscillation of matter, and therefore transfers energy through a medium.

9. the action of compressing or being compressed

11. a sound or series of sounds caused by the reflection of sound waves from a surface back to the listener

12. the speed at which a wave travels

13. the process by which a beam of light or other system of waves is spread out as a result of passing through a narrow aperture or across an edge, typically accompanied by interference between the wave forms produced

18. change in direction of propagation of any wave as a result of its traveling at different speeds at different points along the wave front