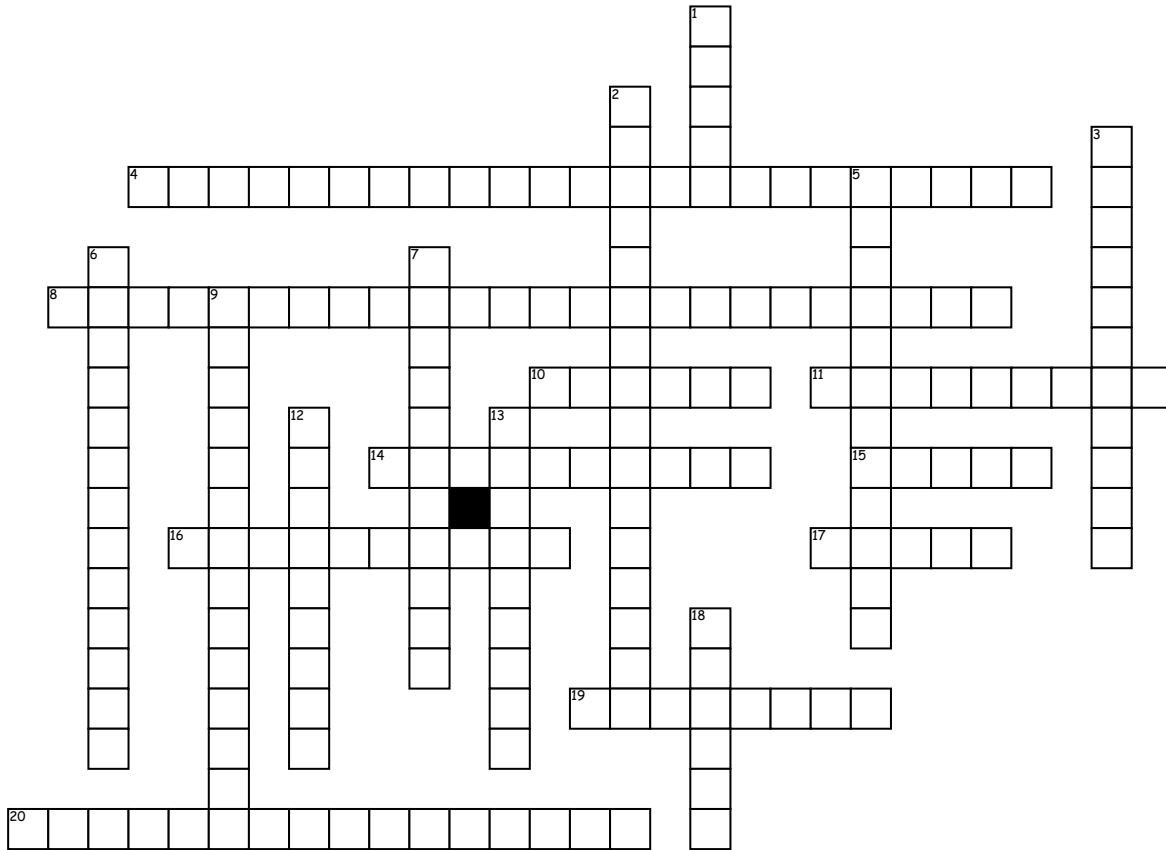


# Wave Crossword Puzzle



**Across**

- 4. The interference of two waves of equal frequency and opposite phase, resulting in their cancellation
- 8. The interference of two or more waves of equal frequency and phase, resulting in their mutual reinforcement and producing a single amplitude
- 10. The intervening substance through which impressions are conveyed
- 11. The rate at which something occurs or is repeated over a particular period of time
- 14. Distance between wave's crests
- 15. The top of something, especially a mountain or wave
- 16. The throwing back by a body or surface of light, heat, or sound without absorbing it

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

19. The speed of something in a given direction

20. Produces compressions and rarefactions when traveling through a medium

**Down**

1. A single disturbance that moves through a medium from one point to the next

2. A wave vibrating in the direction of propagation

3. 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

5. The reduction of an item's density

6. The change in frequency or wavelength of a wave

7. 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

9. A wave vibrating at right angles to the direction of its propagation

12. The maximum extent of a vibration (measured from the position of equilibrium)

13. The reinforcement of sound by reflection from a surface

18. The minimum or lowest point in a wave cycle