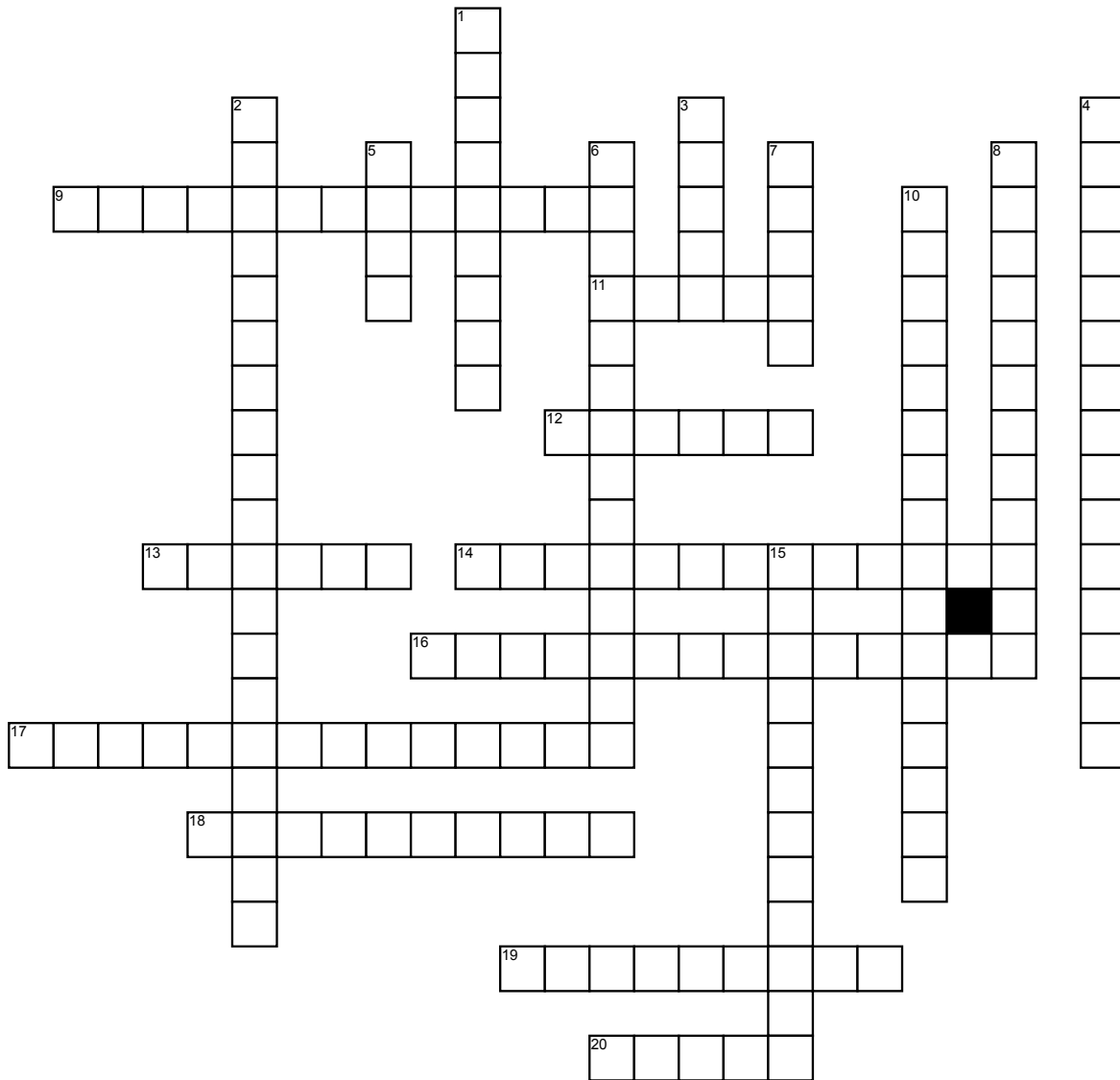


Surfs Up



Across

- 9. the direction particles of a slinky travel
- 11. parts of a standing wave that undergo no displacement
- 12. mechanical waves need this to travel in
- 13. this fork is capable of creating longitudinal waves
- 14. when crest overlap, the _____ wave reaches a maximum height
- 16. what wave is a disturbance that moves through a medium
- 17. A portion of the energy carried by the pulse is reflected and returns towards the left end of the rope.
- 18. distance between two crest or two trough

19. and example of a mechanical wave

20. points on a single periodic wave that have the same displacement from the middle and moving in the same direction

Down

- 1. the rate at which something occurs or is repeated over a particular period of time or in a given sample
- 2. wave with radiant energy
- 3. how quickly or fast something is going
- 4. a wave that is not capable of transmitting its energy through a vacuum
- 5. there are four crests in a standing wave, how many nodes are there

6. particle motion being perpendicular to wave motion

7. a single vibration or short burst of sound, electric current, light, or other wave.

8. when two waves traveling in opposite direction interact, they form a...

10. The motion of the particles is parallel to the direction of the energy transport

15. The result of the interference of the two waves is a new wave pattern known as a...