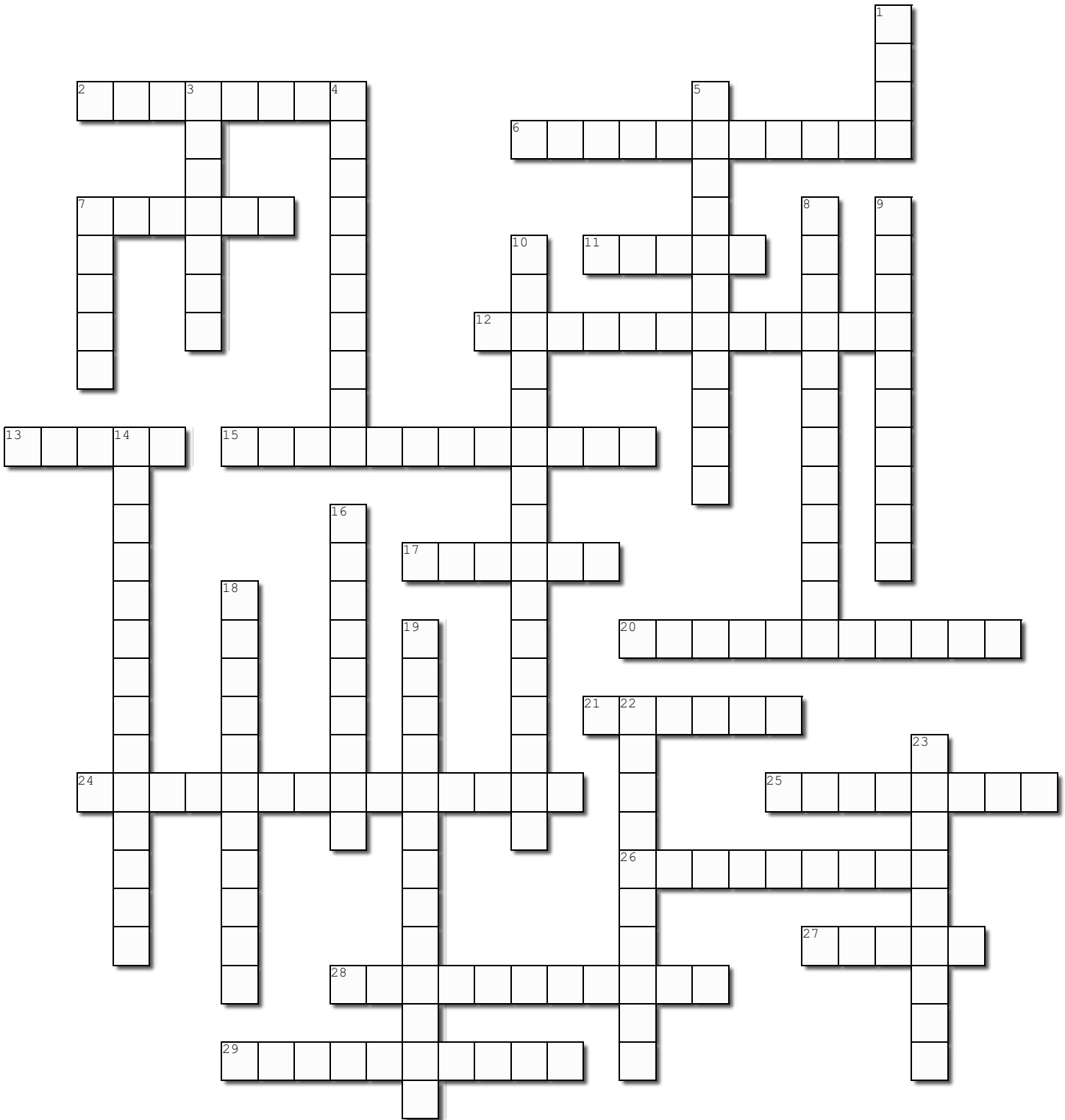


Name: _____

Physical Science Chapter 17 Vocabulary Crossword Puzzle

Fill in the vocabulary term for each definition.



Across

2. a physical response to the intensity of sound
6. _____ interference occurs when two or more waves combine to produce a wave with a smaller displacement
7. the time required for one cycle, a complete motion that returns to its starting point
11. a technique for determining the distance to an object under water
12. when two or more waves overlap and combine together
13. cycles per second; a unit for frequency
15. _____ interference occurs when two or more waves combine to produce a wave with a larger displacement
17. the material through which a wave travels
20. an area where the particles in a medium are spaced close together
21. the lowest point of the wave below the rest position
24. a disturbance in matter that carries energy from one place to another
25. a point on a standing wave where a crest or trough occurs midway between two nodes
26. the maximum displacement of the medium from its rest position
27. the highest point of the wave above the rest position
28. the bending of a wave as it moves around an obstacle or passes through a narrow opening
29. when a wave bounces off a surface that it cannot pass through

Down

1. a point on a standing wave that has no displacement from the rest position
3. a unit that compares the intensity of different sounds
4. a type of longitudinal wave that we use to hear
5. a wave that travels along a surface separating two media
7. the frequency of a sound as you perceive it
8. a wave that appears to stay in one place
9. the distance between a point on one wave and the same point on the next cycle of the wave
10. a wave in which the vibration of the medium is parallel to the direction the wave travels
14. a wave that causes the medium to vibrate at right angles to the direction in which the wave travels
16. the number of complete cycles in a given time
18. an area where the particles in a medium are spread out
19. a change in sound frequency caused by motion of a sound source, motion of the listener, or both
22. the bending of a wave as it enters a new medium at an angle
23. the rate at which a wave's energy flows through a given area