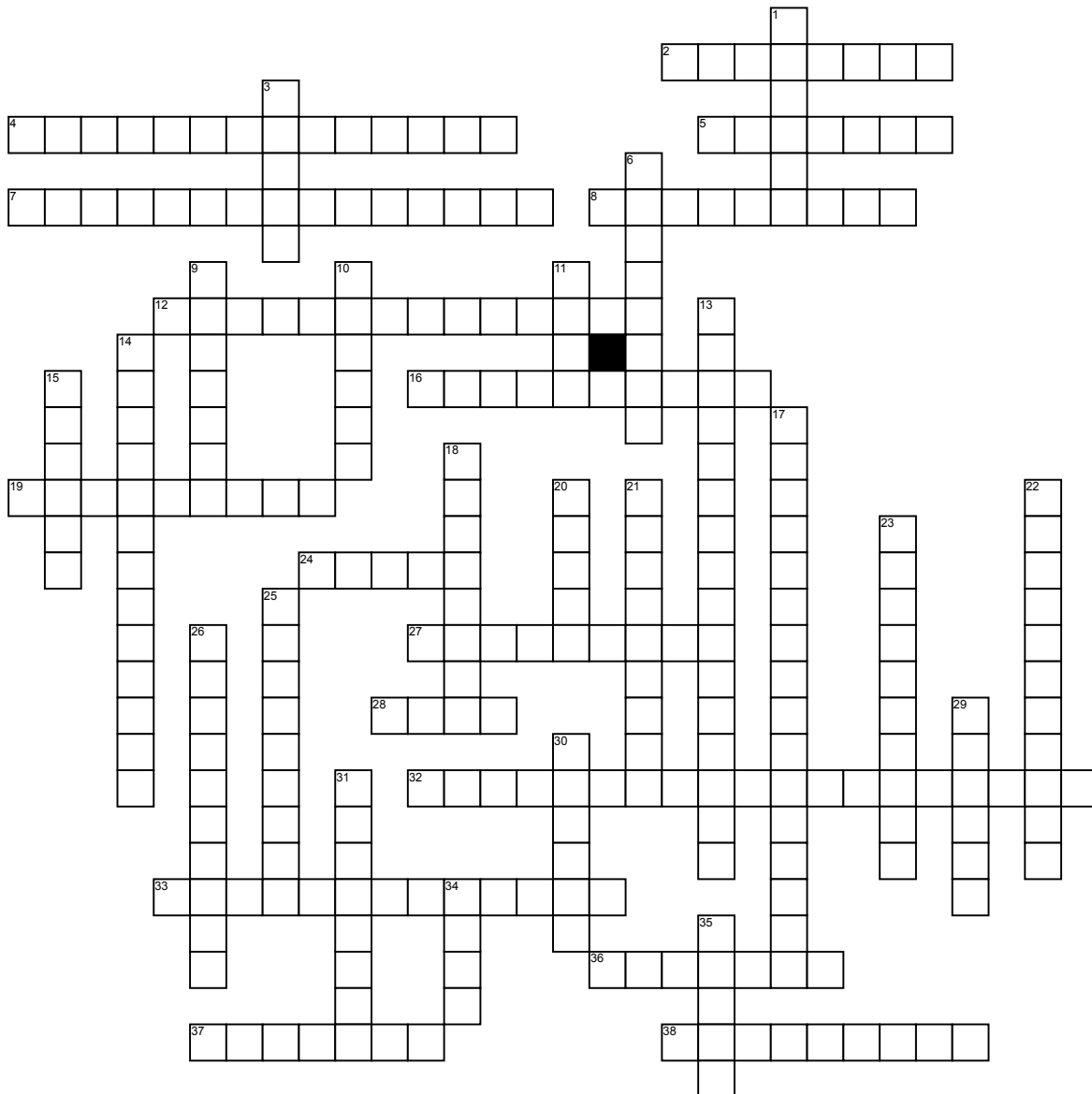


Waves



Across

- 2. speed
- 4. a wave in which the movement of the wave's medium is perpendicular to the movement of the wave traveling through the medium
- 5. a high-energy ocean wave created from the movement of Earth's crust
- 7. a wave in which the wave's medium is compressed in the same direction as the movement of the wave; also called a longitudinal wave
- 8. a rate of something that repeats over and over
- 12. a wave that can only travel through a medium (solid, liquid, or gas)
- 16. the bouncing back of waves off an object
- 19. a quick back-and-forth movement
- 24. a short burst that travels as a wave
- 27. a requirement that must be met
- 28. the reflection of a sound off a distant surface
- 32. a mathematical relationship where if one variable increases, the other decreases
- 33. energy of movement

- 36. a unit used to measure the amplitude of sound

- 37. repeating and recognizable
- 38. the study of sound

Down

- 1. how loud a sound is, which depends on the amplitude of its sound wave
- 3. the high point of a way
- 6. something you can observe about an object, material, or system
- 9. to bounce back
- 10. usable power that can be transferred or converted to different forms but cannot be created or destroyed
- 11. a back-and-forth pattern of motion that transfers energy
- 13. a person who creates designs to enhance the quality of sound within a space
- 14. The collection of closely spaced sound reflections off many surfaces
- 15. a substance or material (solid, liquid, or gas)

- 17. a wave in which the wave's medium moves in the same direction as the movement of the wave; also called a compression wave
- 18. looking for work that may already have been done
- 20. a disturbance that reduces the quality of a signal
- 21. the height of the peaks above the resting line in a wave
- 22. a regular pattern of motion
- 23. a process in which people freely make up creative ideas
- 25. a physical or digital model of a new design
- 26. a factor that limits what can be done
- 29. to take in or soak up
- 30. the low point of a wave
- 31. any factor that can be changed
- 34. a point where a wave crosses its resting line
- 35. the highness or lowness of sound, which depends on the frequency of its sound wave