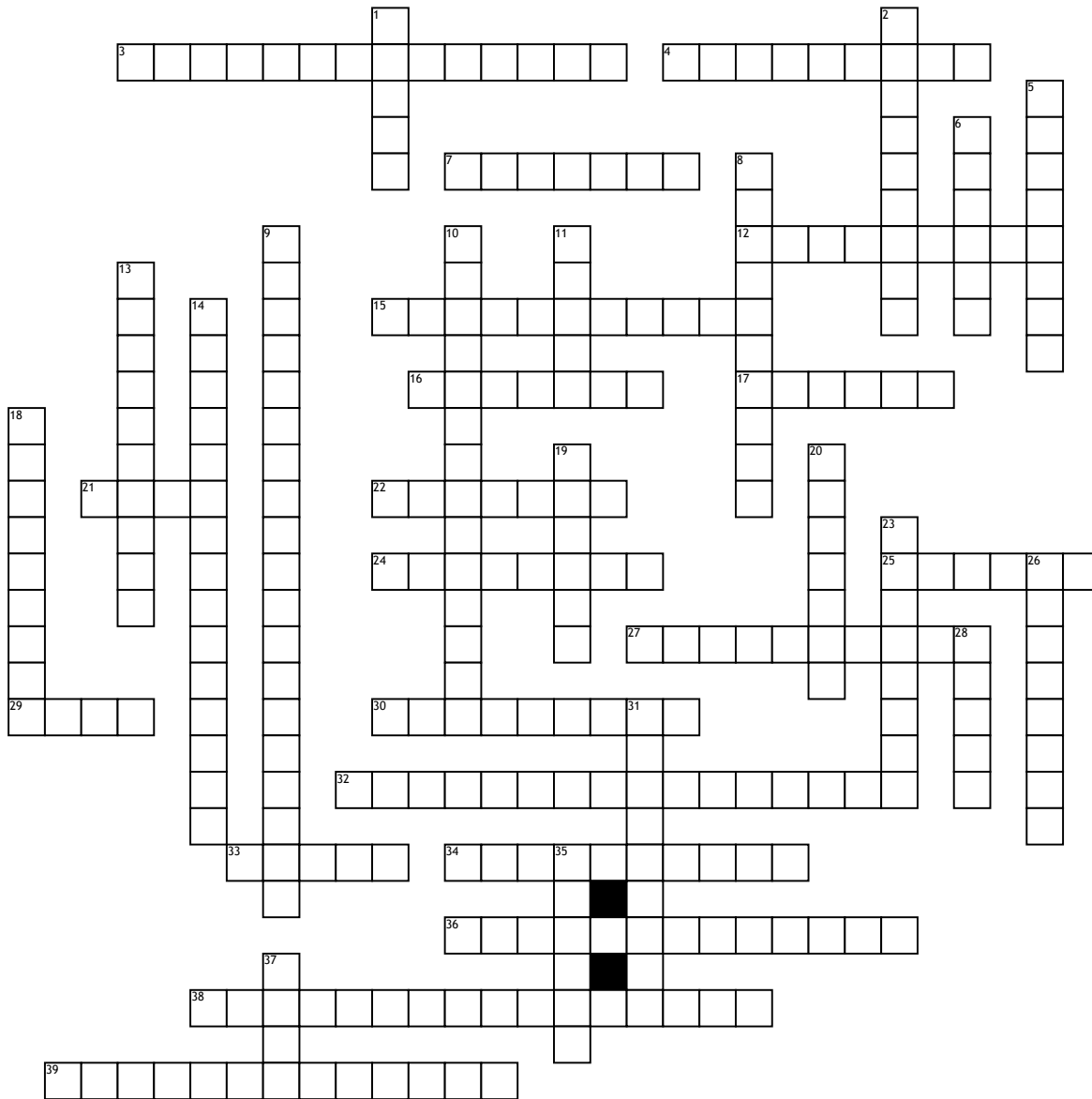


Name: _____ Date: _____ Period: _____

Waves



Across

3. a wave in which the movement of the wave's medium is perpendicular to the movement of the wave traveling through the medium
4. the study of sound
7. a high-energy ocean wave created from the movement of the Earth's crust
12. the height of the peaks above the resting line
15. a regular pattern of motion
16. a repeating and recognizable feature
17. the low point of a wave
21. a back-and-forth pattern of motion that transfers energy
22. a unit used to measure the amplitude of sound
24. speed
25. To take or soak up
27. the bouncing back of waves off an object
29. the reflection of a sound off a distant surface
30. a rate of something that repeats over and over

32. a wave in which the wave's medium moves in the same direction as the movement of the wave; also called a compression wave.

33. the highness and lowness of sound, which depends on the frequency of its sound wave

34. the length of one wave; can be measured as the distance from the center of one peak to the center of the next peak

36. energy of movement

38. a person who creates designs to enhance the quality of sound within space

39. the collection of closely spaced sound reflection off many surfaces

Down

1. the high point of a wave

2. a quick back-and-forth movement

5. something you can observe about an object, material, or system

6. how loud something is, which depends on the amplitude of its sound wave

8. a process in which people freely make up creative ideas

9. a mathematical relationship where if one variable increases, the other decreases

10. a wave that can only travel through a medium (solid, liquid, or gas)

11. a short burst that travels as a wave

13. a factor that limits what can be done

14. 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

18. a physical or digital model of a new design

19. a substance or material (solid, liquid, or gas)

20. to bounce back

23. any factor that can be changed

26. looking for work that may already be done

28. a disturbance that reduces the quality of a signal

31. a requirement that must be met

35. usable power that can be transferred or converted to different forms but cannot be created or destroyed

37. a point where a wave crosses its resting line