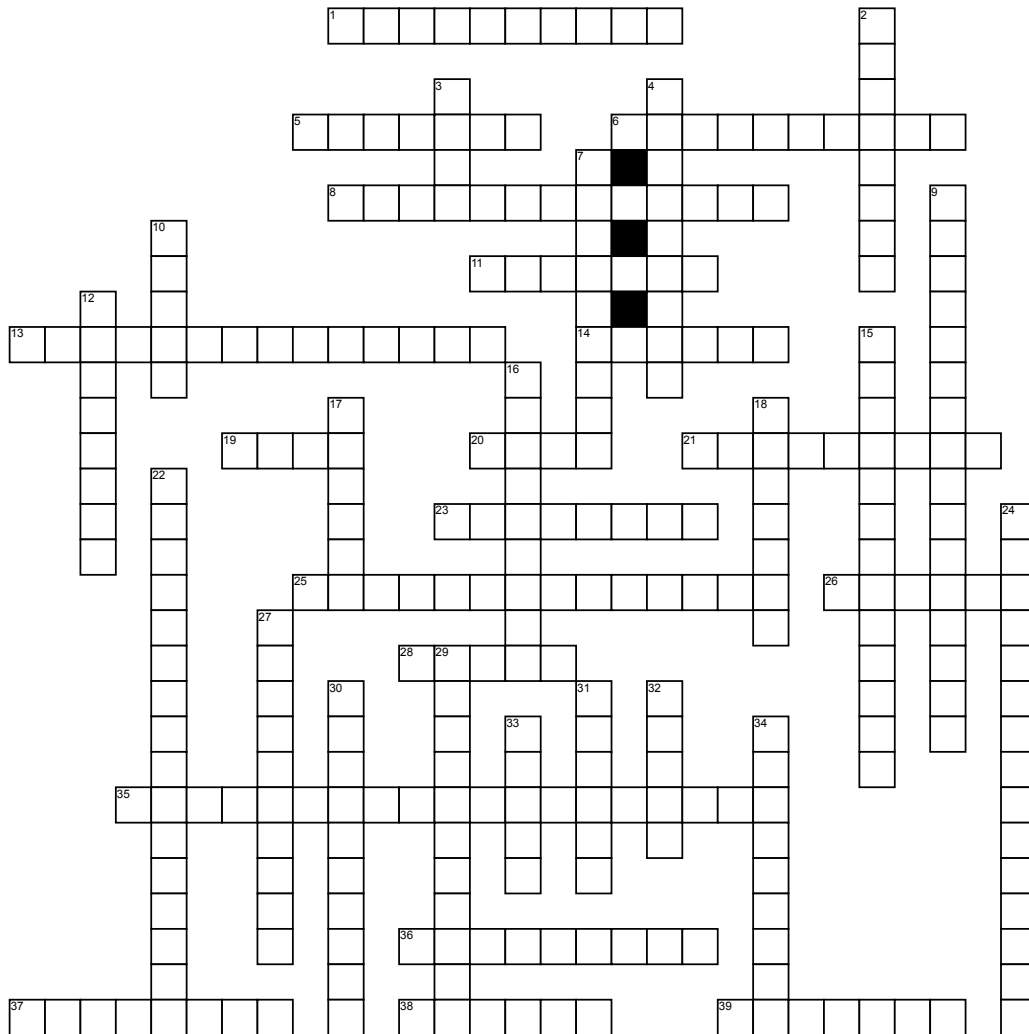


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Wave Vocabulary Crossword Puzzle



## Across

1. the bouncing back of waves off an object
5. a high-energy wave created from the movement of the Earth's crust
6. a process in which people freely make up creative ideas
8. the collection of closely spaced sounds reflections off many surfaces
11. a repeating and recognizable feature
13. a wave in which the wave's movement of the wave's medium is perpendicular to the movement of the wave traveling through the medium
14. the low point of a wave
19. the reflection of a sound off in the distance
20. a point where a wave crosses its resting line
21. a rate of something that repeats over and over
23. looking for work that may already have been done
25. a wave that can only travel through a medium
26. (plural media) a substantial or material
28. a disturbance that reduces the quality of a signal
35. a mathematical relationship where if one variable increases, the other decreases

36. a quick back-and-forth movement
37. something you can observe about an object, material, or system
38. usable power that can be transferred or converted to different forms but cannot be created or destroyed
39. to bounce back

## Down

2. speed
3. a back and forth pattern of motion that transfers energy
4. (plural: criteria) a requirement that must be met
7. a physical or digital model of a new design
9. a person who creates designs to enhance the quality of sound within a space
10. a short burst that travels as a wave
12. any factor that can be changed
15. energy of movement
16. the study of sound
17. how loud a sound is, which depends on the amplitude of its sound wave
18. a unit used to measure the amplitude of sound

22. a wave in which the wave's medium moves in the same direction as the wave

24. a wave in which the wave's medium compresses in the same direction as the movement of the wave
27. a factor that limits what can be done
29. a regular pattern of motion
30. the length of one wave; can be measured as the distance from one peak to the center of the next peak
31. to take in or soak up
32. the highest point of a wave
33. the highness and lowness of sounds, which depends on the frequency of it's sound wave
34. the height of the peaks above the resting line in a wave

## Word Bank

acoustic engineer	trough	vibration	research	kinetic energy	reverberation
prototype	node	energy	mechanical wave	reflect	wavelength
criterion	tsunami	brainstorm	medium	echo	pattern
frequency	reflection	volume	property	decibel	variable
acoustics	crest	pulse	inverse relationship	oscillation	noise
transverse wave	absorb	longitudinal wave	pitch	constraint	amplitude
wave	compression wave	velocity			