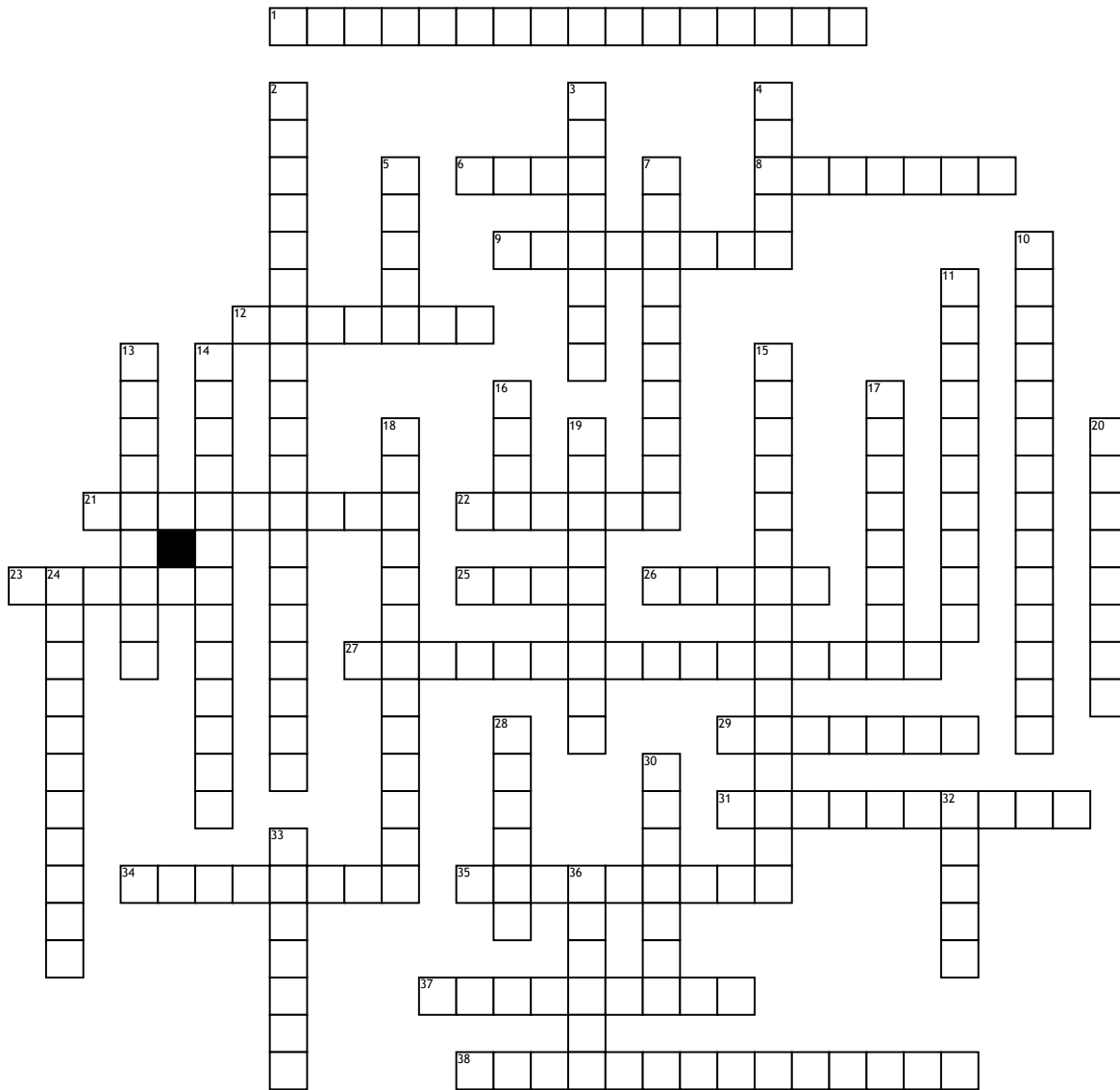


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# waves unit



## Across

1. a wave in which the wave's medium moves in the same direction as the movement of the wave; also called a compression wave
6. the reflection of a sound of a distant surface
8. a high-energy ocean wave created from the movement of earth's crust
9. looking for work that may have already been done
12. to bounce back
21. a quick back-and-forth pattern
22. a substance or mineral (solid, liquid, gas)
23. how loud a sound is, which depends on the amplitude of it's sound wave
25. a point where a wave crosses its resting line
26. the high point in a wave
27. a person who creates or designs to enhance the quality of sound within space
29. usable energy that can be transferred or converted to different forms but one can not be created or destroyed

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

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

35. a physical or digital model of a new design

37. a rate of something that repeats over and over

38. a wave that can only travel through a medium

## Down

2. a mathematical relationship where if one of the variables is increased, the other decreases

3. the study of sound

4. the highest or lowest of sound, which depends on frequency of its sound wave

5. a short burst that travels as a wave

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

10. a wave in which the movement of the wave's medium is perpendicular to the movement of the wave traveling through the medium

11. the bouncing back of waves off an object

13. the height above the resting line in a wave

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

15. 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

16. a back-and-forth pattern of motion that transfers energy

17. a factor that can be changed

18. energy of movement

19. a requirement that must be met

20. speed

24. a regular pattern or motion

28. to take in or soak up

30. a repeating and recognizable feature

32. a disturbance that reduces the quality of a signal

33. a unit used to measure the amplitude of sound

36. the low point of a wave