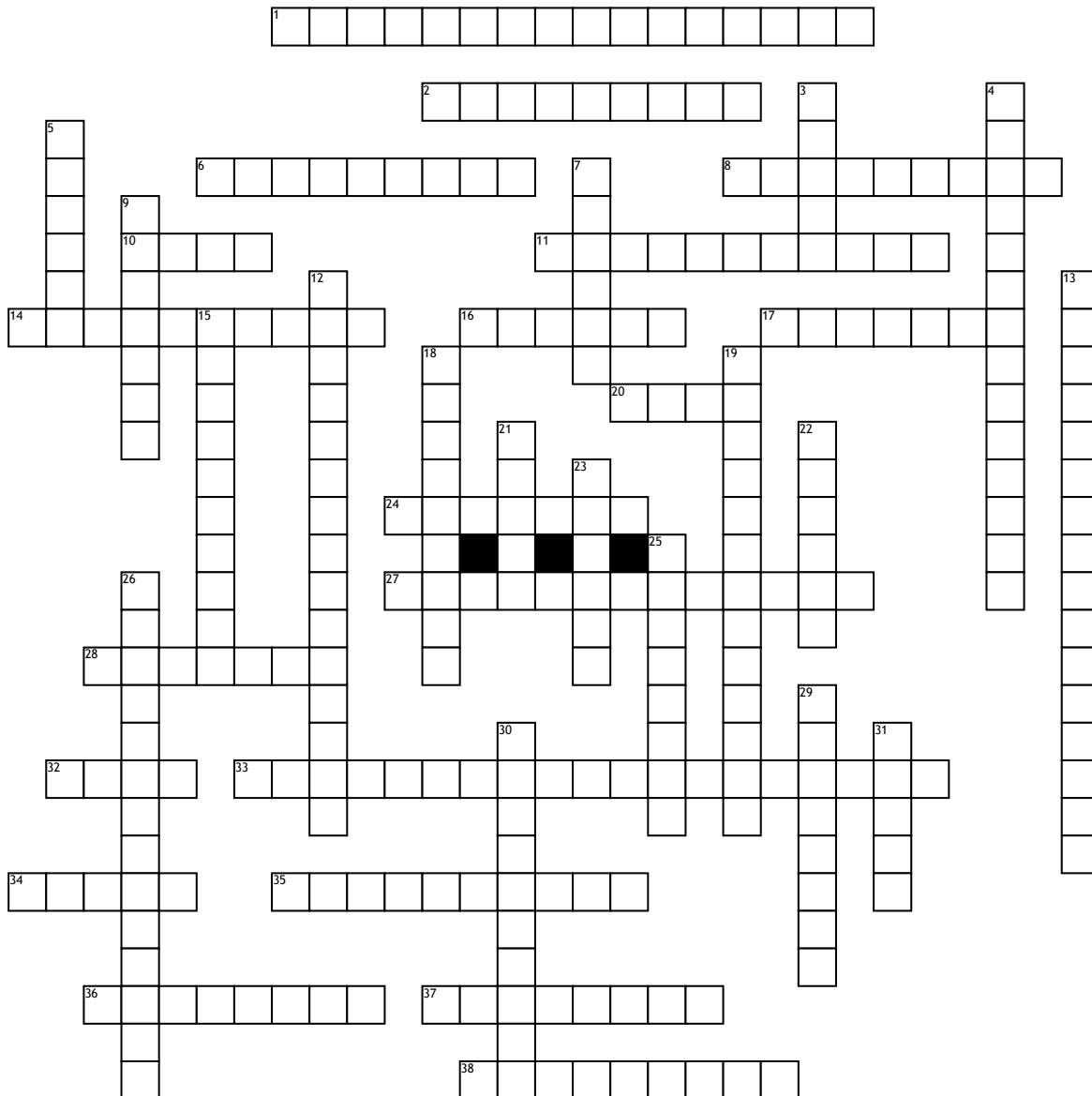


Name: _____

Date: _____

Science



Across

1. a person who creates designs to enhance the quality of sound within a space
2. the study of sound
6. a quick back-and-forth movement
8. a rate of something that repeats over and over
10. the reflection of a sound off a distant surface
11. a regular pattern of motion
14. the bouncing back of waves off an object
16. usable power that can be transferred or converted to different forms but cannot be created or destroyed
17. a high-energy ocean wave created from the movement of Earth's crust
20. a point where a wave crosses its resting line
24. a unit used to measure the amplitude of sound
27. energy of movement
28. a repeating and recognizable feature
32. a back-and-forth pattern of motion that transfers energy

33. a mathematical relationship where if one variable increases, the other decreases
34. a short burst that travels as a wave
35. 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. any factor that can be changed
37. something you can observe about an object, materials or system
38. the height of peaks above a resting line in a wave

Down

3. the high point of a wave
4. a wave that can only travel through a medium (solid, liquid, or gas)
5. how loud a sound is, which depends on the amplitude of its sound wave
7. to take in or soak up
9. to bounce back
12. 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

13. a wave in which the wave's medium moves in the same direction as the movement of the wave; also called a compression wave
15. a factor that limits what can be done
18. a requirement that must be met
19. the collection of closely spaced sound reflections off many surfaces
21. a disturbance that reduces the quality of a signal
22. the low point of a wave
23. a substance or material (solid, liquid, or gas)
25. speed
26. a wave in which the movement of the wave's medium is perpendicular to the movement of the wave traveling through the medium
29. looking for work that may already have been done
30. a process in which people freely make up creative ideas
31. the highness or lowness of sound, which depends on the frequency of its sound wave