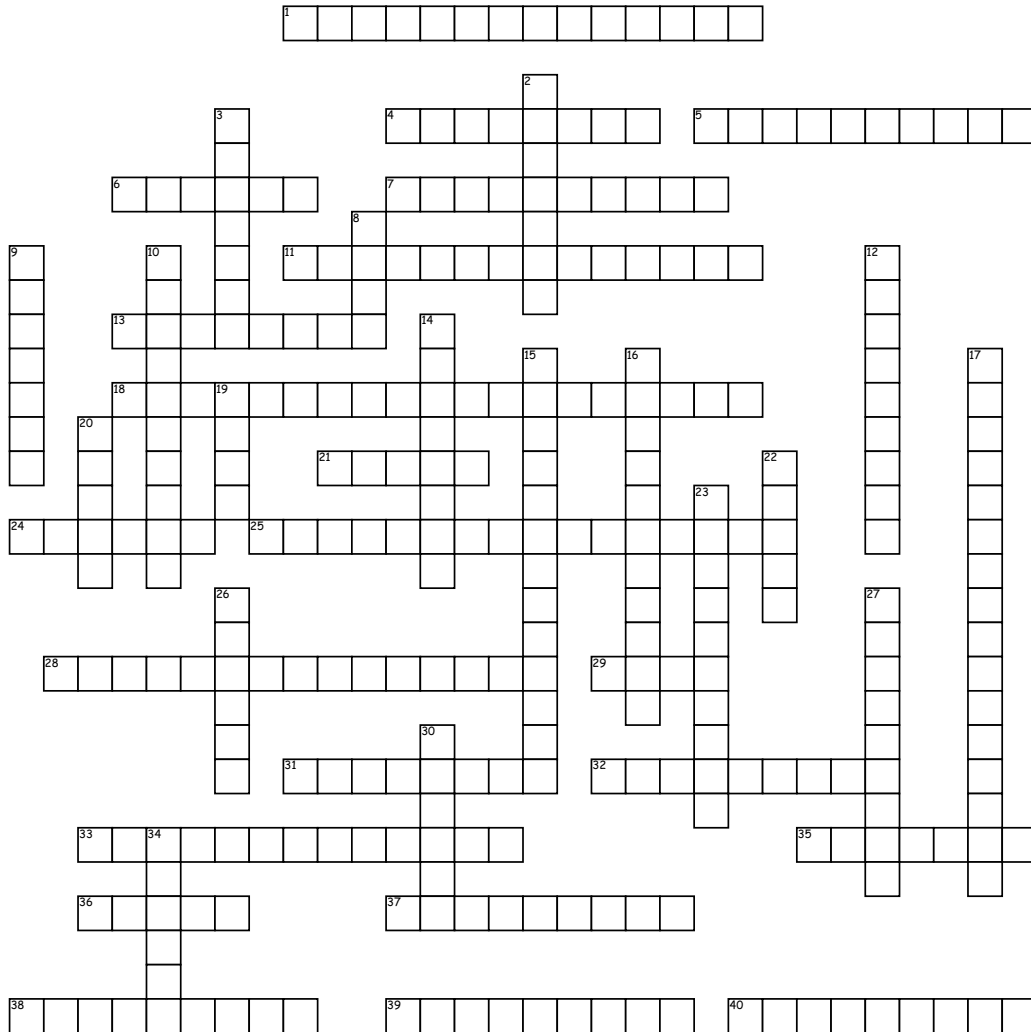


Wave Vocab



Across

- 1. a wave that can only travel through a medium (solid, liquid, or gas)
- 4. looking for work that may already have been done
- 5. the bouncing back of waves off an object
- 6. the low point of a wave
- 7. a factor that limits what can be done
- 11. a wave in which the movement of the wave's medium is perpendicular to the movement of the wave traveling through the medium
- 13. any factor that can be changed.
- 18. a mathematical relationship where if one variable increases, the other decreases
- 21. the highness or lowness of sound, which depends on the frequency of its soundwave
- 24. to take in or soak up.
- 25. a wave in which the wave's medium moves in the same direction as the movement of the wave; also called a compression wave
- 28. a wave in which the wave's medium is compressed in the same direction as the movement of the wave; also called the longitudinal wave
- 29. a point where a wave crosses its resting line

- 31. something you can observe about an object, material or system
- 32. a physical or digital model of a new design
- 33. the collection of closely spaced sound reflections off many surfaces
- 35. a unit used to measure the amplitude of sound
- 36. a short burst that travels as a wave
- 37. the height of the peaks above the resting line in a wave.
- 38. a requirement that must be met
- 39. a rate of something that repeats over and over
- 40. a quick back-and-forth movement

Down

- 2. a repeating and recognizable feature
- 3. a high-energy ocean wave created from the movement of the Earth's crust.
- 8. a back-and-forth pattern of motion that transfers energy.
- 9. to bounce back
- 10. a process in which people freely make up creative ideas.
- 12. the study of sound.
- 14. speed
- 15. energy of movement

- 16. a regular pattern of motion
- 17. a person who creates designs to enhance the quality of sound within a space.
- 19. the reflection of a sound off a distant surface
- 20. a disturbance that reduces the quality of a signal
- 22. the high point of a wave
- 23. the length of one wave; can be measured as the distance from the center of one peak to the center of the next peak.
- 26. usable power that can be transferred or converted to different forms but cannot be created or destroyed
- 27. a rate of something that repeats over and over.
- 30. a substance or material (solid, liquid, or gas)
- 34. how loud a sound is, which depends on the amplitude of its sound waves.

Word Bank

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