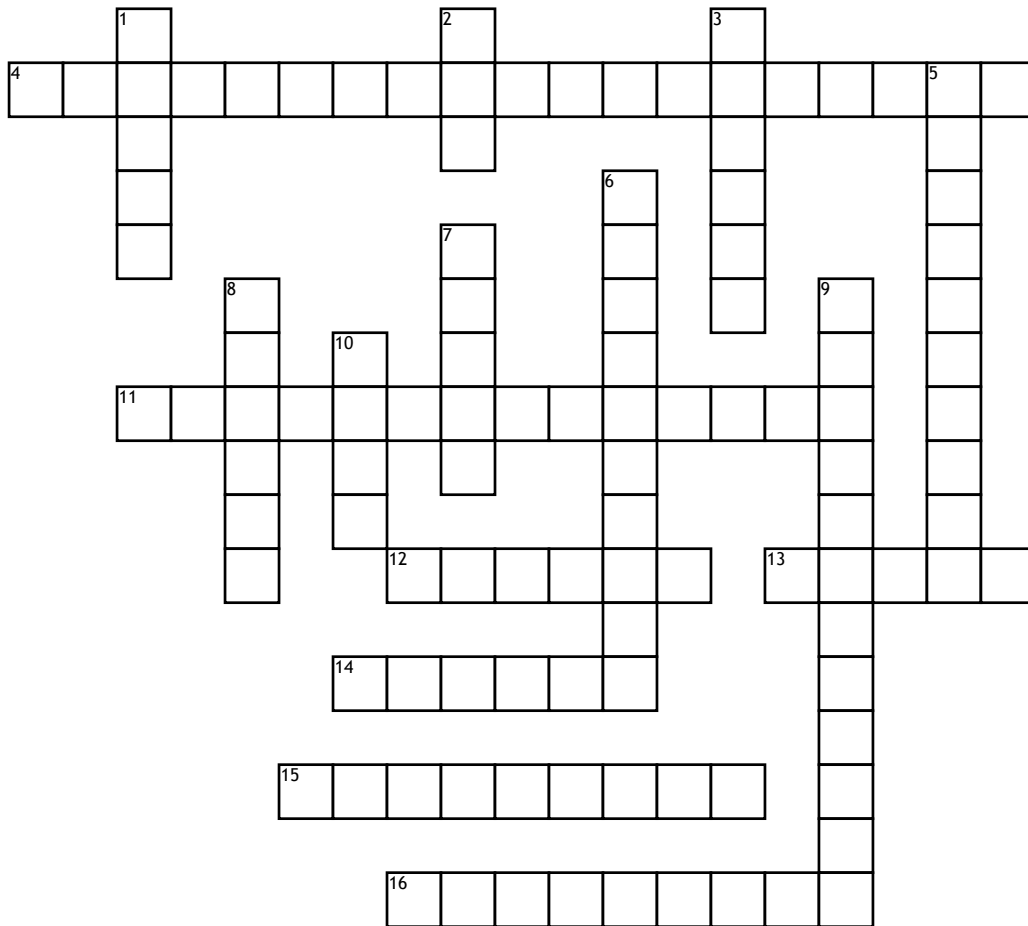


Properties of Waves



Across

- 4. A wave that is capable of transmitting its energy through a vacuum.
- 11. A wave that travels only through matter.
- 12. The ability to do work.
- 13. The high point of a wave.
- 14. The low point of a wave.
- 15. The number of complete waves that pass a given point in a certain amount of time.

Word Bank

- | | | | |
|-----------------|-----------|------------|----------------------|
| Solid | Frequency | gas | Liquid |
| Trough | Wave | Wavelength | Crest |
| Mechanical Wave | Energy | Vibrations | Vacuum |
| Spectroscope | Hertz | Amplitude | Electromagnetic Wave |

- 16. The maximum distance that the particles of the medium carrying the wave move away from their rest position.

Down

- 1. The unit for frequency.
- 2. A state of matter with no definite shape or volume.
- 3. A state of matter that has no definite shape but has a definite volume.
- 5. A disturbance that transfers energy from place to place.

- 6. The distance between two corresponding parts of a wave.

- 7. A state of matter that has a definite shape and a definite volume..

- 8. A place that is empty of all matter.

- 9. An instrument that separates light into colors and makes an image of the resulting spectrum.

- 10. A repeated back and forth or up and down motion.