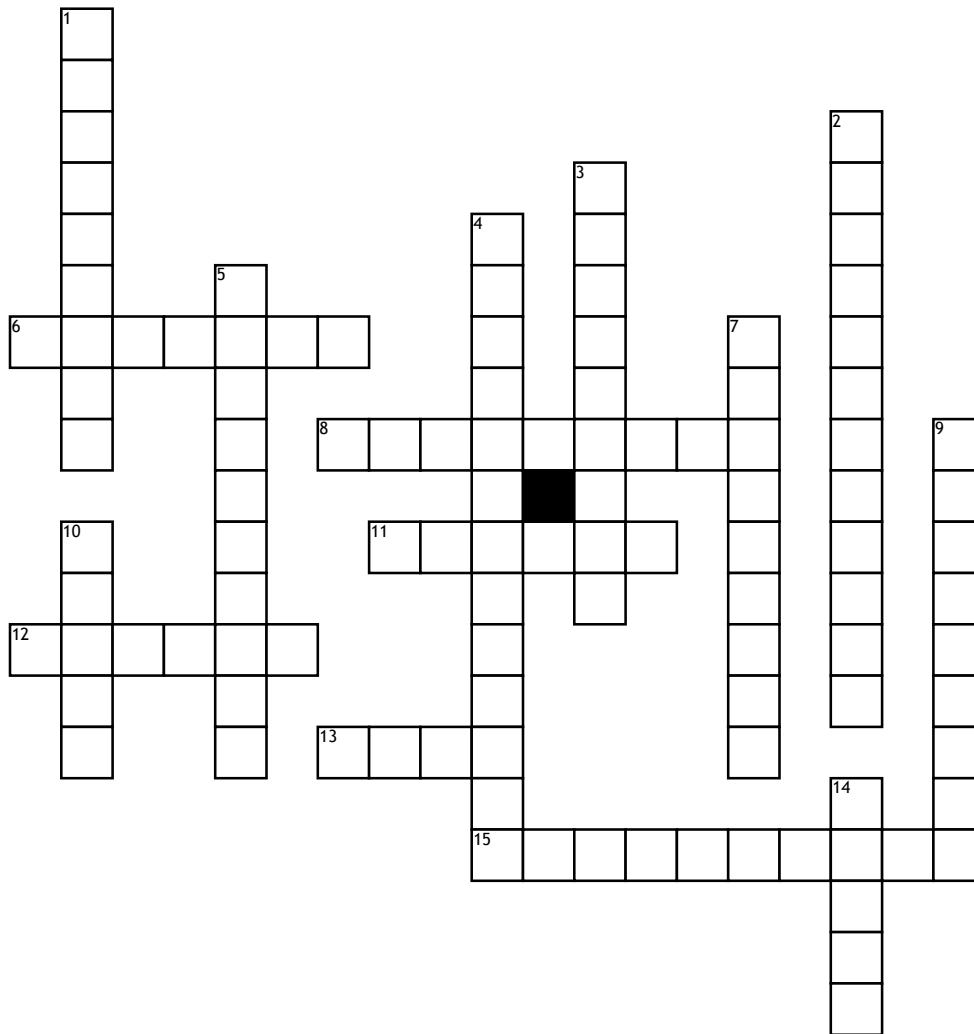


# Vibrations and Waves



**Across**

- 6. V-shaped wave generated when the wave's source moves faster than the waves it creates
- 8. Distance from the midpoint to the crest
- 11. The time associated with a single wave
- 12. Low point of a wave
- 13. A "wiggle" in space and time

- 15. Describes waves whose motion of the medium is perpendicular to the direction of the wave itself

**Down**

- 1. Sound heard when a shockwave reaches the ground below
- 2. Wave in which the particles of the medium move back and forth in same direction as the wave
- 3. A "wiggle" in time

- 4. Apparent change in frequency due to the motion of the wave's source (or receiver)
- 5. Distance from the top of one crest to the top of the next one
- 7. How often a vibration occurs
- 9. Wave produced by overlapping spheres forming a cone
- 10. The unit of frequency
- 14. High point of a wave

**Word Bank**

- |           |                |            |              |           |
|-----------|----------------|------------|--------------|-----------|
| wave      | doppler effect | wavelength | period       | Trough    |
| frequency | crest          | amplitude  | shockwave    | bow wave  |
| hertz     | transverse     | sonic boom | longitudinal | vibration |