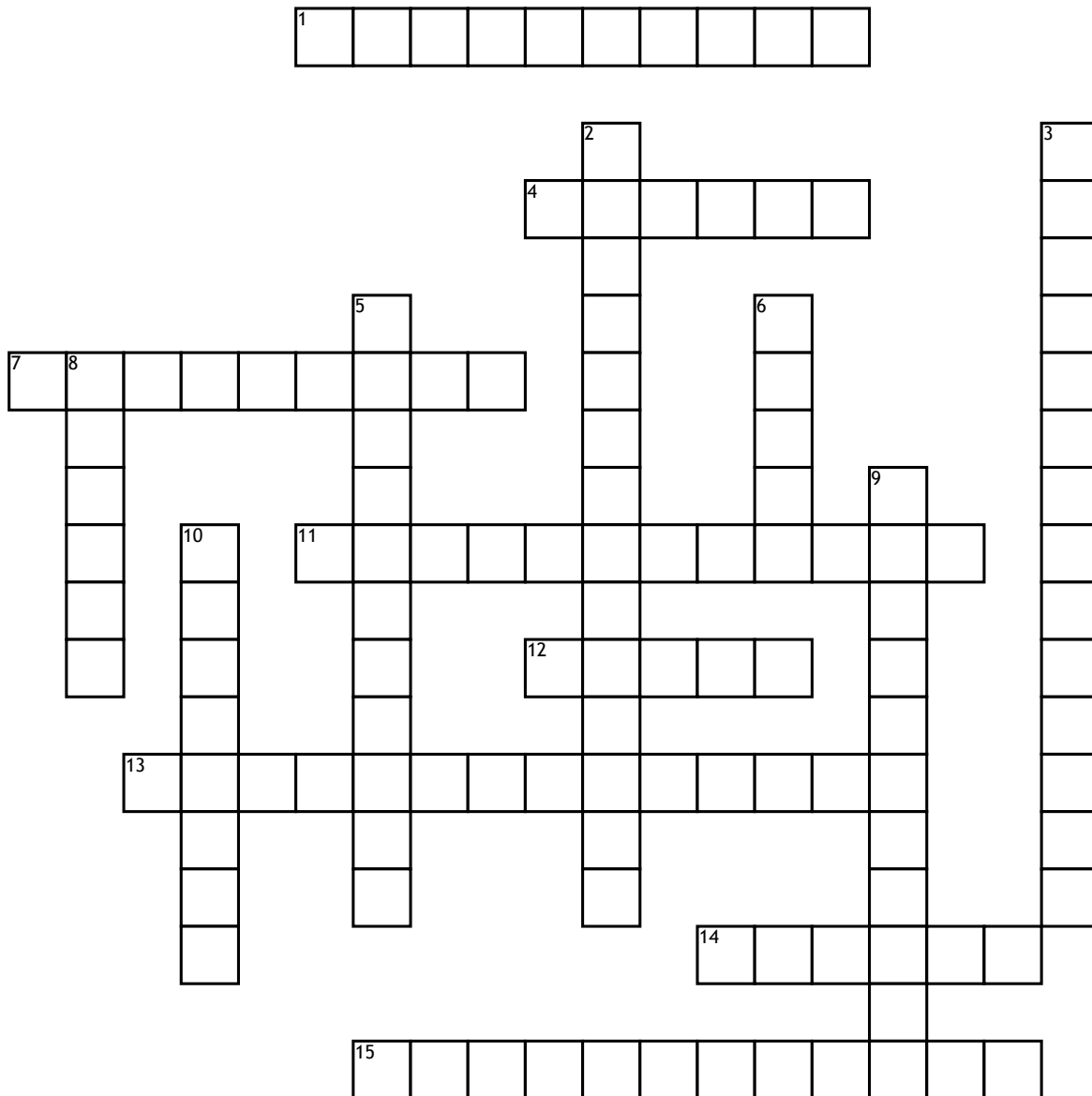


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# mechanical waves and sound



## Across

1. Wavelength, distance between corresponding points of two consecutive waves

4. the lowest points of a transverse wave

7. Amplitude, in physics, the maximum displacement or distance moved by a point on a vibrating body or wave measured from its equilibrium position

11. A rarefaction is a region in a longitudinal wave where the particles are furthest apart.

12. Hertz (Hz) is a unit of frequency, defined as the number of complete cycles of a periodic signal that take place in one second

13. A mechanical wave is a wave that is an oscillation of matter, and therefore transfers energy through a medium.

14. is the time required for one complete cycle of vibration to pass in a given point.

15. A wave that oscillates back and forth on an axis that is the same as the axis along which the wave propagates.

## Down

2. a wave vibrating at right angles to the direction of its propagation.

3. motion repeated in equal intervals of time. Periodic motion is performed, for example, by a rocking chair, a bouncing ball, a vibrating tuning fork, a swing in motion

5. A seismic wave that travels across the surface of the Earth as opposed to through it.

6. A crest is a point on a surface wave where the displacement of the medium is at a maximum.

8. A substance that makes possible the transfer of energy from one location to another, especially through waves

9. The definition of compression is the action or state of being squished down or made smaller or more pressed together.

10. Frequency, in physics, the number of waves that pass a fixed point in unit time;