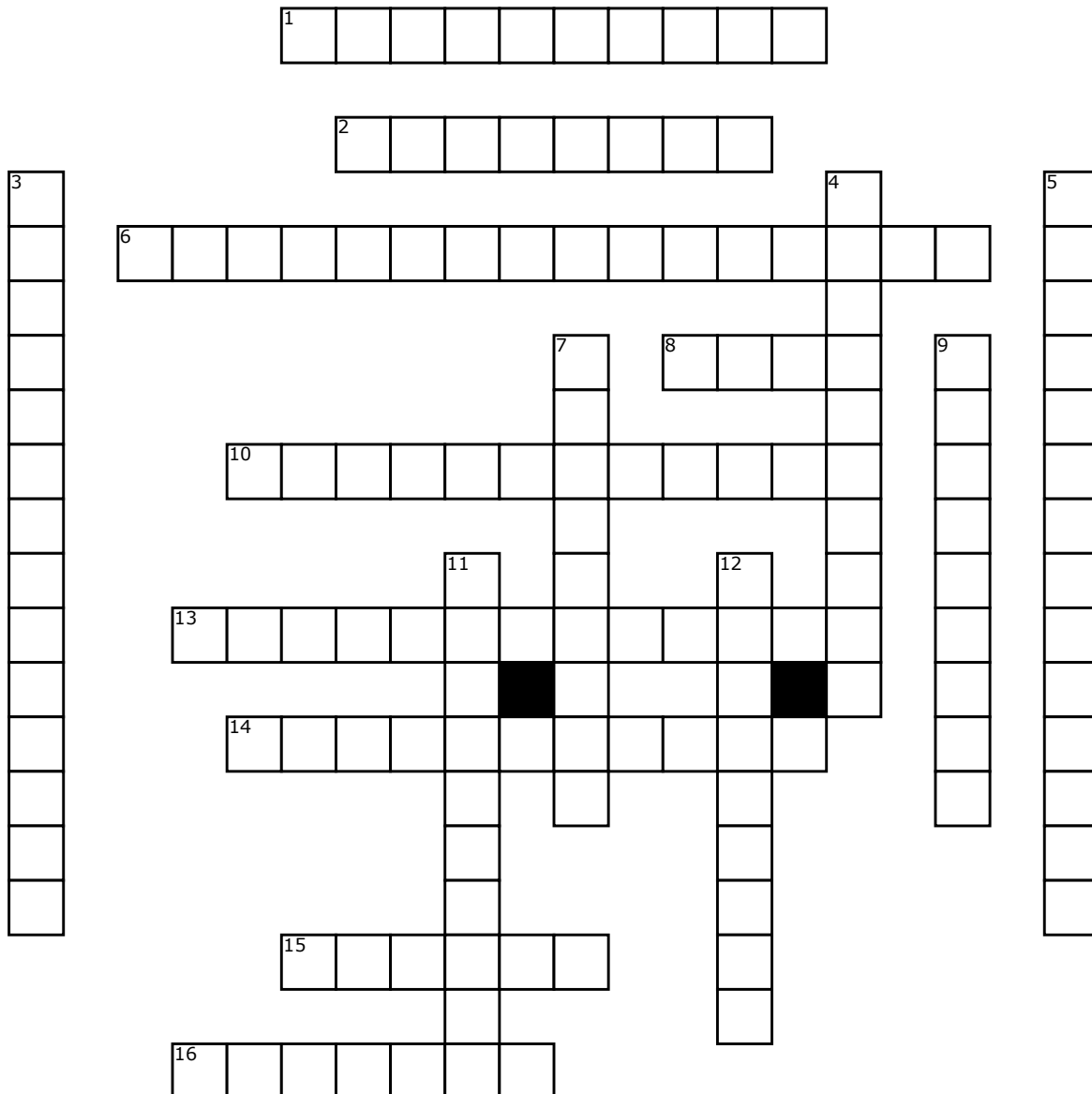


# waves and sounds



## **Across**

- 1.** the persistence of a sound after its source has stopped
- 2.** consisting of an actual object allowed to rotate freely around a horizontal axis
- 6.** The bending or spreading of waves as they move around a barrier or pass through an opening
- 8.** a movement up and down or back and forth
- 10.** The act of interfering with something, or something that interferes.
- 13.** change in the apparent frequency of a wave as observer and source move toward or away from each other

**14.** when light passes sharp edges or goes through narrow slits the rays are deflected and produce fringes of light and dark bands

**15.** the interval taken to complete one cycle of a regularly repeating phenomenon

**16.** The reduction in the magnitude of oscillations by the dissipation of energy

## **Down**

**3.** motion that recurs over and over and the period of time required for each recurrence remains the same

**4.** the distance (measured in the direction of propagation) between two points in the same phase in consecutive cycles of a wave

**5.** the distance (measured in the direction of propagation) between two points in the same phase in consecutive cycles of a wave

**7.** The number of occurrences within a given time period

**9.** Maximum displacement of wave from the rest position or the size of the wave or how large the wave is

**11.** The change in direction of a propagating wave (light or sound) when passing from one medium to another

**12.** a vibration of large amplitude produced by a relatively small vibration near the same frequency of vibration as the natural frequency of the resonating system