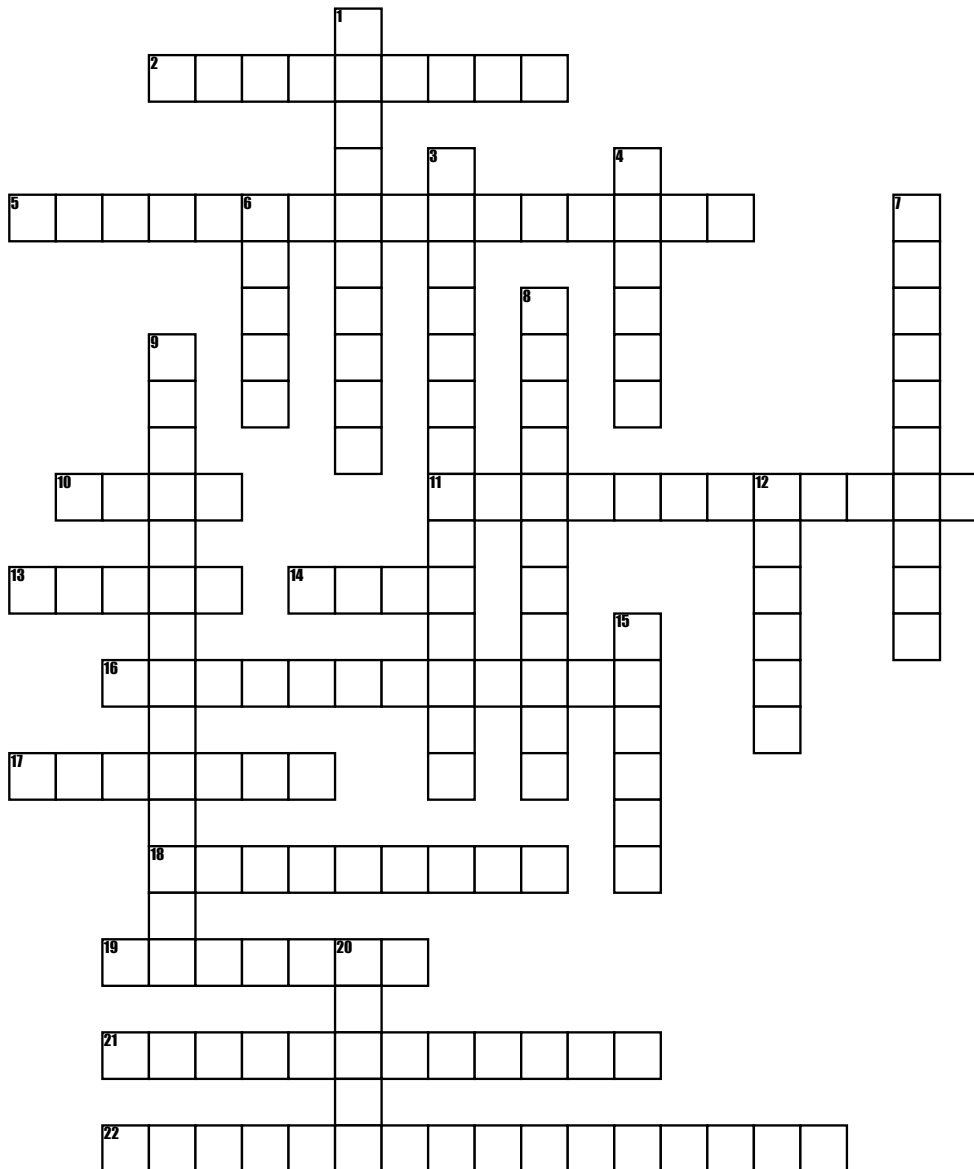


# Waves



## Across

**2.** a repeated back and forth or up and down motion

**5.** an increase (or decrease) in the frequency of sound, light, or other waves as the source and observer move toward (or away from) each other.

**10.** a sound or series of sounds caused by the reflection of sound waves from a surface back to the listener.

**11.** parts where the waves are spread out

**13.** vibrations that travel through the air or another medium and can be heard when they reach a person's or animal's ear.

**14.** a disturbance that carries energy through matter or space

**16.** the location of objects by reflected sound, in particular that used by animals such as dolphins and bats.

**17.** to bounce off

**18.** measure of wave energy; the distance between a wave's resting point and the top or crest of the wave

**19.** the change in direction of a wave due to a change in its medium

**21.** parts where the waves are close together

**22.** waves that move the medium parallel to the direction in which the waves travel

## Down

**1.** the distance between two corresponding parts of a wave

**3.** a wave that transfers energy perpendicular to its medium. The energy moves one direction while the medium moves at a right angle to it.

**4.** material through which waves travel

**6.** the quality of a sound made by the number of vibrations (the highness or lowness of a sound)

**7.** distance between 2 crests or troughs

**8.** the apparent bending of waves around a small obstacle

**9.** a wave that requires a medium in which to travel and carry energy

**12.** the lowest point of a transverse wave

**15.** the ability to do work

**20.** the highest point of a transverse wave