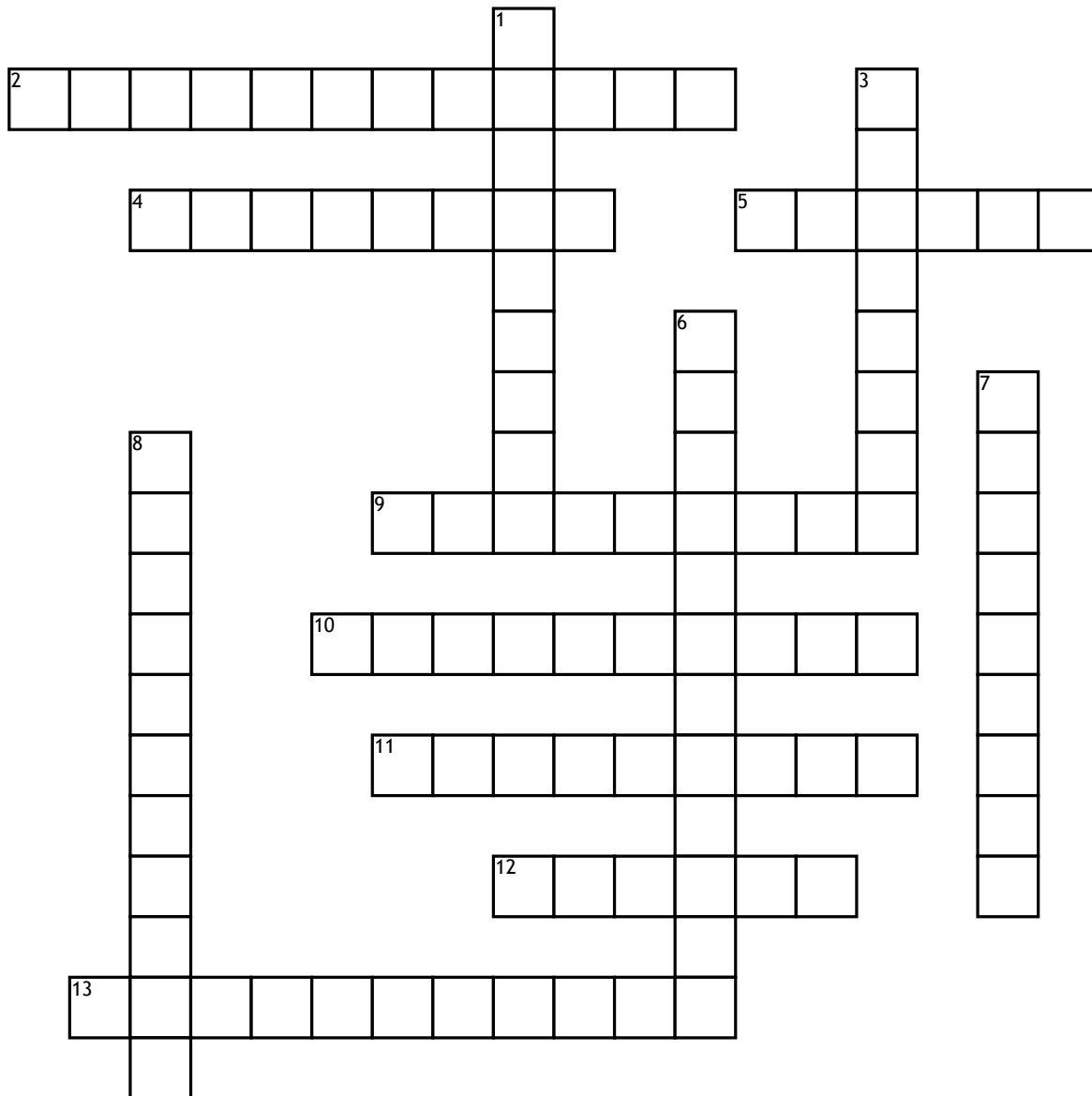


Name: _____

Date: _____

Waves and Sound



Across

2. restoring force is equal to _____ in simple harmonic motion.
 4. the perceived loudness of a sound is measured in _____
 5. sound waves typically travel faster through _____
 9. the number of cycles or vibrations per unit of time
 10. a wave in which the particles vibrate in a direction perpendicular to the direction of the wave's motion

11. _____ occurs when the the frequency of a force applied to a system matches the natural frequency of the system
 12. the time required to complete a cycle of motion
 13. the region of a sound wave in which the density and pressure are greater than normal

Down

1. the maximum distance that an object moves from equilibrium is the _____

3. For a mass on a spring, at the equilibrium position, _____ reaches a maximum

6. For a mass on a spring, at maximum displacement the spring force and _____ reach a maximum.

7. a single nonperiodic disturbance

8. the trough of the sine curve used to represent a sound wave