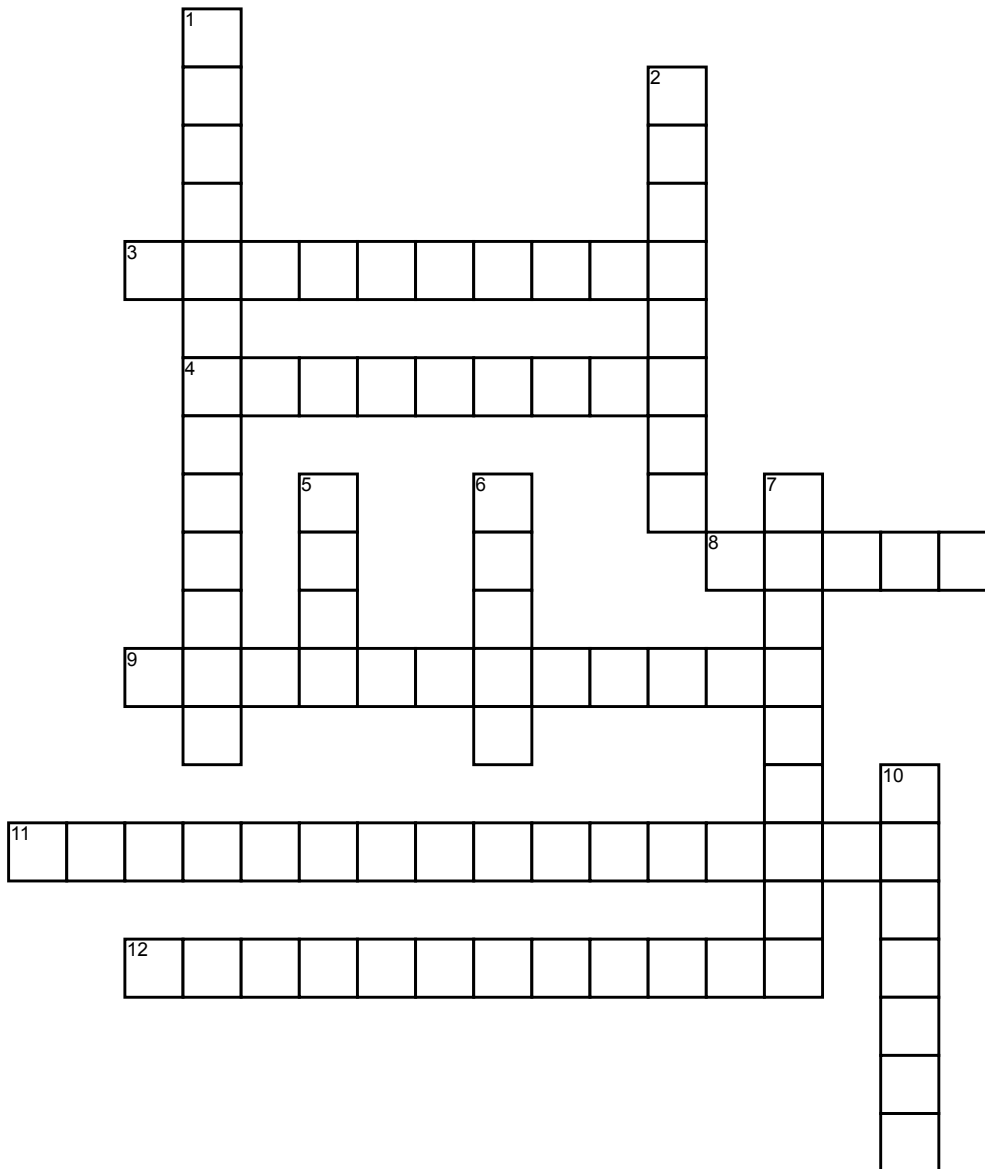


Name: _____

Date: _____

Sound



Across

3. sound waves with frequencies greater than 20,000 hertz, the upper limit of typical hearing levels in humans, often used for medical purposes

4. a phenomenon that occurs when two objects naturally vibrate at the same frequency; the sound produced by one object to vibrate

8. sound navigation and ranging, a system that uses acoustic signals and returned echoes to determine the location of objects or to communicate

9. the process of using reflected sound waves to find objects; used by animals such as bats and dolphins

11. a wave in which the particles of the medium vibrate parallel to the direction of wave motion

12. the combination of two or more waves that results in a single wave

Down

1. an observed change in the frequency of a wave when the source or observer is moving

2. the extent to which a sound can be heard

5. a reflected sound wave

6. a measure of how high or low a sound is perceived to be, depending on the frequency of the sound wave

7. a longitudinal wave that is caused by vibrations and that travels through a material medium

10. the most common unit used to measure loudness