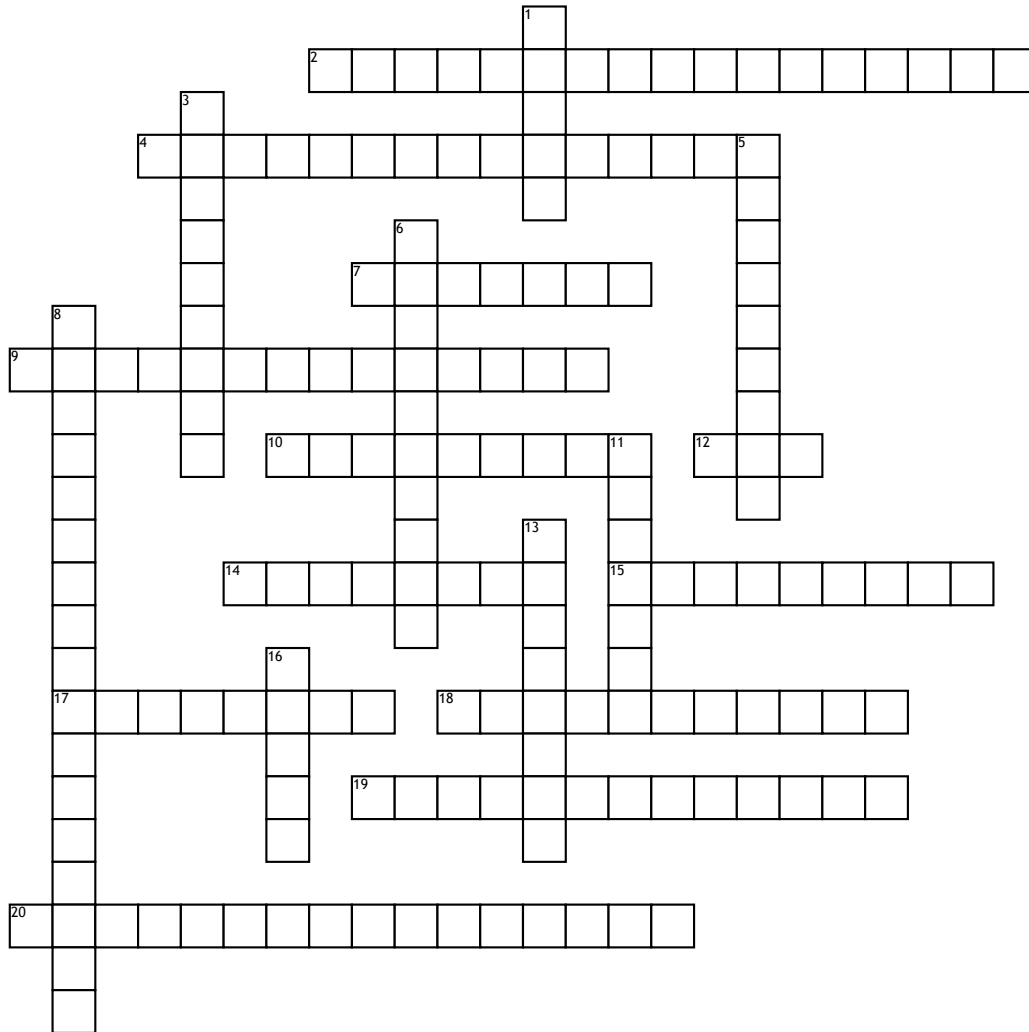


Name: _____

Date: _____

Sound Measurement



Across

- 2. frequency at which a mass vibrates with the least amount of external force
- 4. Waves that move the medium in a direction that is perpendicular to the direction waves travel
- 7. The progressive diminution in the amplitude of a vibrating body
- 9. Rapid and random movement of air particles
- 10. Level in which a stimulus is barely noticed
- 12. One-tenth of a decibel is called
- 14. Tone of only one frequency

- 15. amount of sound energy per unit of area
- 17. impression of the power of sound
- 18. Back and forth motion of a vibrating body
- 19. The scientific term for moving energy
- 20. A wave where the particles of the medium move along the same axis of the wave

Down

- 1. Series of moving impulses from a vibration
- 3. Number of complete oscillations of a vibrating body per unit of time

- 5. the waveform of a pure tone that shows simple harmonic motion
- 6. the distance between the same point on two cycles of a tone
- 8. Device that allows for electronic calibration of the bone-conduction system of an audiometer
- 11. The unit of expressing the ration of two different sound pressures
- 13. The speed at which sound travels from a source to another
- 16. Unit that measures frequency

Word Bank

- | | | | |
|--------------------|----------------|-----------|-------------------|
| Resonant Frequency | Velocity | Damping | Transverse Waves |
| Artificial Mastoid | Kinetic Energy | Frequency | Waves |
| Brownian Method | Pure Tone | Intensity | Longitudinal Wave |
| Wavelength | Bel | Decibel | Oscillation |
| Hertz | Sine Waves | Loudness | Threshold |