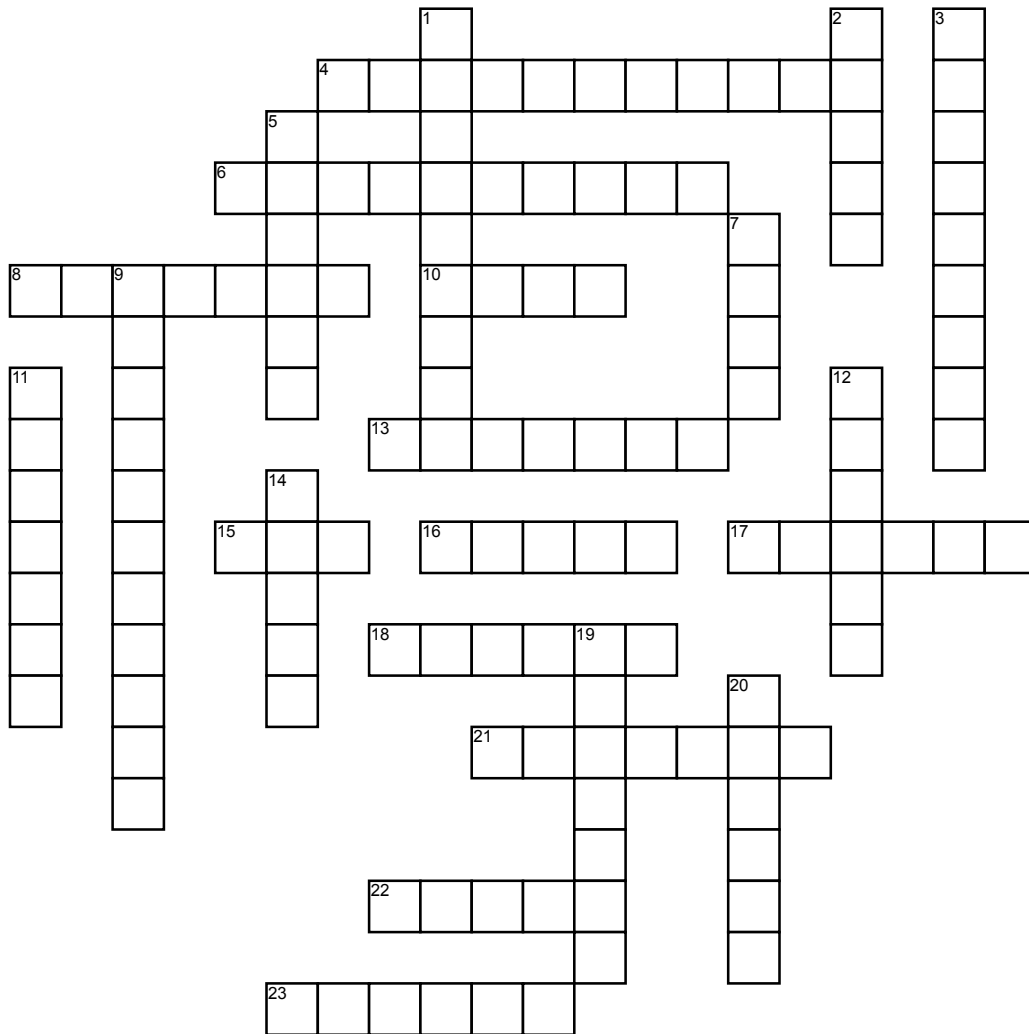


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Sound



**Across**

- 4. part of a sound wave where particles of the medium are closest together
- 6. distance between on part of a wave and the same part on the next wave
- 8. vibrates when sound reaches here through the ear canal
- 10. sound caused by periodic (regular repeating) oscillations
- 13. 20Hz to 20kHz is the range for human .....
- 15. 330m/s is the average speed of sound in ....

- 16. 1500 m/s is the approximate speed of sound in ....
  - 17. time for one complete oscillation (vibration) of particles in a medium
  - 18. The speed of sound in most ..... exceeds 3000m/s.
  - 21. spiral part of the ear
  - 22. sound caused by non-periodic (irregular) oscillations
  - 23. one of the middle ear bones
- Down**
- 1. maximum displacement from the rest (equilibrium position) of particles in a medium
  - 2. one of the middle ear bones

- 3. number of waves (oscillations) moving past a point in one second
- 5. sound cannot travel in a
- 7. level when sound becomes painful for a listener is the threshold of ....
- 9. part in a sound wave where particles are spread the furthest apart
- 11. one of the middle ear bones
- 12. object that oscillates and makes sound is a sound ....
- 14. measure of how high or low sound is, related to frequency
- 19. unit for sound intensity level ("loudness")
- 20. sound needs a .... to travel through

**Word Bank**

- |           |            |             |         |             |
|-----------|------------|-------------|---------|-------------|
| HEARING   | STIRRUP    | COMPRESSION | EARDRUM | PITCH       |
| ANVIL     | HAMMER     | TONE        | MEDIUM  | SOURCE      |
| VACUUM    | WAVELENGTH | PERIOD      | AIR     | COCHLEA     |
| PAIN      | AMPLITUDE  | DECIBEL     | NOISE   | RAREFACTION |
| FREQUENCY | WATER      | SOLIDS      |         |             |