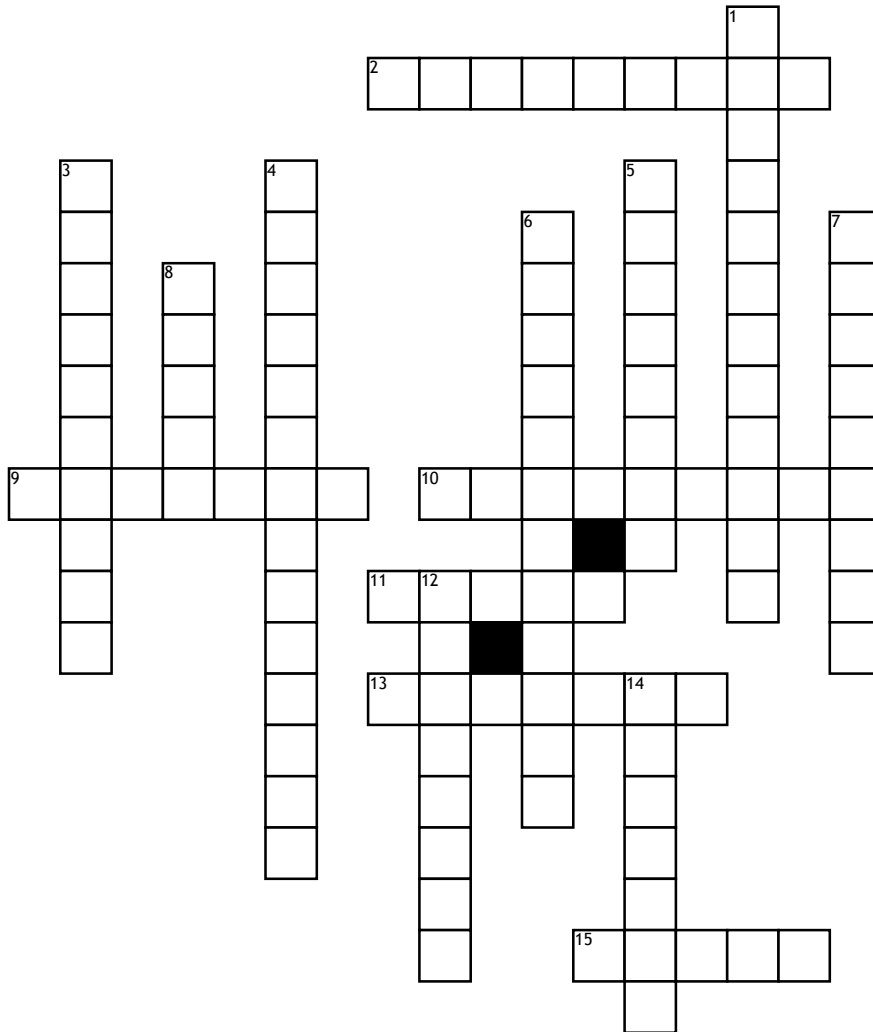


Chapter 10



Across

- 2. is a hollow chamber filled with air
- 9. is a spiral shaped structure
- 10. is the study of sound
- 11. is a system that uses the reflection of underwater sound waves to detect objects
- 13. abbreviated db, is a unit of sound intensity
- 15. is any collection of sounds that are deliberately used in a regular pattern

Down

- 1. describes the differences between sounds of the same pitch
- 3. is sound with frequency above 20000 Hz and cannot be heard by humans
- 4. is the change in wave frequency due to a wave source
- 5. is the human perception of sound volume and primarily depends of sound intensity

- 6. is the process of locating objects by emitting sounds and then interpreting the sound waves that are reflected from those objects
- 7. is the amount of energy that passes through a certain area in a specific amount of time
- 8. is how high or low a sound seems to be
- 12. vibrations whose frequency is a multiple of the fundamental frequency
- 14. is a tough membrane

Word Bank

- | | | | | |
|-----------|---------|----------------|------------|-----------|
| cochlea | sonar | echolocation | ultrasound | overtone |
| music | pitch | sound quality | intensity | decibel |
| resonator | eardrum | doppler effect | loudness | acoustics |