

Chapter 16 Sound and Light

SECTION 1 SOUND

1. Student should label an area with close-together air particles "Compression" and an area with far-apart air particles "Rarefaction."
2. longitudinal
3. cold air
4. Rubber absorbs or reduces vibrations, so sound waves do not travel through it well.
5. the energy in the waves
6. When the drum is hit gently, less energy is transmitted to it. Therefore, it vibrates less, and the amplitude of the resulting sound waves is smaller. The smaller amplitude produces a reduced intensity, or loudness.
7. 10 times
8. about four times
9. Trombones generally play lower-pitched, and therefore lower-frequency, sounds than trumpets.
10. the dolphin
11. standing waves
12. the frequency of the main standing wave on a vibrating string
13. the top
14. the frequencies at which an object is most likely to vibrate
15. More air molecules are in contact with the guitar body.
16. through the outer ear
17. outer ear, middle ear, inner ear
18. a long, flexible membrane in the cochlea
19. They do not harm living cells.
20. no
21. The images are produced using ultrasound waves.
22. a tool that uses reflected sound waves to measure distances
23. Student should circle the highest point on the ocean floor.

Review

1. Both infrasound and ultrasound are outside the range of normal human hearing. Infrasound has lower frequencies than humans can hear. Ultrasound has higher frequencies than humans can hear.
2. amplitude and distance from source
3. The first sound has a lower frequency and smaller amplitude than the second sound.
4. left to right: outer ear; eardrum; middle ear; cochlea
5. Both involve using sound waves to measure or make images. Sonograms are images of the human body. Sonar is used to produce images of the ocean floor or other objects.

SECTION 2 THE NATURE OF LIGHT

1. They diffract.
2. transverse waves
3. Any three of the following: reflection, refraction, diffraction, interference
4. the bright red light
5. Possible answer: particles, photons
6. The bright red beam contains more photons because it is brighter. Brighter lights contain more photons.
7. top row: wave model
second row: particle model
third row: wave model
bottom row: particle model
8. photons
9. ultraviolet
10. air
11. The light spreads out as it travels.
12. Student should circle the largest area.
13. gamma rays
14. radio waves
15. a system that uses radio waves to locate objects
16. centimeters
17. a phone signal
18. temperature changes and cloud movements in the atmosphere
19. more

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