

## Chapter 16 Sound and Light

### SECTION 1 SOUND

- Student should label an area with close-together air particles "Compression" and an area with far-apart air particles "Rarefaction."
- longitudinal
- cold air
- Rubber absorbs or reduces vibrations, so sound waves do not travel through it well.
- the energy in the waves
- 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.
- 10 times
- about four times
- Trombones generally play lower-pitched, and therefore lower-frequency, sounds than trumpets.
- the dolphin
- standing waves
- the frequency of the main standing wave on a vibrating string
- the top
- the frequencies at which an object is most likely to vibrate
- More air molecules are in contact with the guitar body.
- through the outer ear
- outer ear, middle ear, inner ear
- a long, flexible membrane in the cochlea
- They do not harm living cells.
- no
- The images are produced using ultrasound waves.
- a tool that uses reflected sound waves to measure distances
- Student should circle the highest point on the ocean floor.

### Review

- 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.
- amplitude and distance from source
- The first sound has a lower frequency and smaller amplitude than the second sound.
- left to right: outer ear, eardrum; middle ear, cochlea
- 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

- They diffract.
- transverse waves
- Any three of the following: reflection, refraction, diffraction, interference
- the bright red light
- Possible answer: particles, photons
- The bright red beam contains more photons because it is brighter. Brighter lights contain more photons.
- top row: wave model  
second row: particle model  
third row: wave model  
bottom row: particle model
- photons
- ultraviolet
- air
- The light spreads out as it travels.
- Student should circle the largest area.
- gamma rays
- radio waves
- a system that uses radio waves to locate objects
- centimeters
- a phone signal
- temperature changes and cloud movements in the atmosphere
- more

# 2008 Science Spectrum Scramble Answer Key

**KJ Lindholm-Leary**

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