

## Chapter 26 Sound

## Exercises

## 26.1 The Origin of Sound (page 515)

Match each sound source with the part that vibrates.

	Sound Source	Vibrating Part
<u>a</u>	1. violin	a. strings
<u>b</u>	2. your voice	b. reed
<u>d</u>	3. saxophone	c. column of air at the mouthpiece
<u>c</u>	4. flute	d. vocal chords

5. Sound waves are a type of longitudinal wave.

6. What normally determines the frequency of sound waves?

The frequency of sound waves produced normally have the same frequency as the vibrating source.

7. Define pitch.

Pitch is our subjective impression about the frequency of sound.

8. As people grow older, they often have more trouble hearing sounds at the high end of the range of frequencies.

9. Sound waves with frequencies below the normal range are infrasonic waves.

10. Sound waves with frequencies above the normal range are ultrasonic waves.

## 26.2 Sound in Air (pages 515–517)

11. Is the following sentence true or false? Sound vibrates the air much like particles move back and forth along a stretched spring. true

12. A pulse of compressed air is called a compression, and a pulse of low-pressure air is called a rarefaction.

13. For all wave motion, it is not the medium that travels, but a pulse that travels.

14. Explain what happens when a tuning fork is struck against one end of an open tube.

When the prong is struck, a compression enters the tube. When the prong swings away, a rarefaction follows the compression. A series of compressions and rarefactions is produced within the tube as the fork continues to vibrate.

## 26.3 Media That Transmit Sound (page 517)

15. What did Native Americans learn long ago when they put their ears to the ground?

They could hear the hoofbeats of distant horses through the ground before they could hear them through the air.

# Conceptual Physics Chapter 26 Answers

**John D. Cutnell, Kenneth W. Johnson**



**Conceptual Physics Chapter 26 Answers:**

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large, multicellular organisms? No, some live solitary lives as single-celled organisms. 11. Complete the table about the two categories of ...

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7-1 Life Is Cellular Structures within a eukaryotic cell that perform important cellular functions are known as organelles. Cell biologists divide the eukaryotic cell into two major.

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Chapter 7-1 Life Is Cellular The discovery of the cell was possible due to the invention of the.

2. Who was the first person to see cells? 3. Why did he call them cells?