SECTION

6. Sound waves are made up of a series of crests and troughs.

7. In general, sound travels most rapidly through a gas.

Directions: If the statement is correct, write True . If it is false, change the italicized term or terms to make the statement true.	
1. All sounds are produced by <i>vibrations</i> .	
2. Sound is a <i>transverse</i> wave.	
3. In a compressional wave, the motion of the particles is particles is particles is particles is particles is particles.	rallel
4. Sound waves carry work.	
5. Sound travels faster at <i>low</i> temperatures.	

Directions: *Circle the term that best completes the statement.*

Reinforcement

- 8. As the wavelength of a sound increases, its frequency (increases, decreases, remains the same).
- 9. As the energy of a sound wave increases, its (frequency, wavelength, amplitude) increases.
- 10. (Pitch, Loudness, Frequency) is the human perception of how much energy a sound wave carries.
- 11. If the compressions of a sound wave become more dense, and the rarefactions become less dense, the amplitude of a sound is (increasing, decreasing, unchanged).
- 12. The distance between the beginning of one compression and the beginning of the next compression is the wave's (wavelength, amplitude, frequency).
- 13. Some animals use (echo, echolocation, pitch) to navigate and hunt.
- 14. The pitch of a sound is determined by its (wavelength, amplitude, frequency).
- 15. As an ambulance, sounding its siren, passes you and moves away, the siren's pitch (increases, decreases, remains the same).
- 16. You can hear a radio playing in another room before you get to the door because the sound has been (diffracted, refracted, reflected).





Music

	ctions: Answer the following questions on the lines provided. What is the difference between music and noise?			
		12		
2.	What vibrates in each of the following to produce the initial sound?			
	a. your voice			
	b. a piano			
	c. a trumpet			
3.	What is resonance?			
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	Directions: Fill in the blanks with the terms that best complete t			
4.	4. A musical instrument will vibrate with its	when played.		
5.	5. The guitar body of an acoustic guitar resonates to	the sound when		
	a string is plucked.			
6.	6 are repeated echoes of sour	are repeated echoes of sound.		
7.	7. The pitch of the lowest sound produced by an instru	The pitch of the lowest sound produced by an instrument is its		
8.	8. The shorter the string of a violin, the	the pitch.		
9.	9. In a xylophone, the longer the bar, the	the pitch.		
10.	10. When two notes very close together in pitch interfere	e, they produce regular changes in		
	loudness called			
11.	11. The purpose of the ear is to	o amplify sound.		
12.	in the inner ear generate nerve impulses that are transmitted to			
	the brain to be interpreted as sound.			
13.	13. As people age, their freque	ncy hearing tends to decrease.		

