Conceptual Physics Chapter 26 Review		Name: Period:	Date:
1.	What is the source of all sounds?		
2.	What happens to the pitch of a sound wave as the	ne frequency	of the wave is increased?
3.	Using both words and diagrams, distinguish between	veen a compi	ression and rarefaction of a wave.
4.	Why is a sound wave unable to travel through a	vacuum?	
5.	Why do sound waves travel more quickly through	h liquids and	solids than they do through gases?
6.	Describe the motion of the medium at a node and	d antinode of	a standing wave.
7.	Two waves with equal frequency, wavelength an are traveling in opposite directions on a string. We waves are completely out of phase.		
8.	You see a flash of lightening, and two seconds lathe lightening strike?	iter, hear the	thunder clap. How far from you did
9.	Why is a tuning fork louder when it is held on a s	ounding boar	d?
10.	A crow bar and a tablespoon are both dropped to sounds?	the floor. W	hy do they produce distinctly different
11.	Natasha takes a deep breath and belts out a musi the 512 Hs tuning form is humming. Explain wha		
12.	What is resonance?		

13.	Is it possible for one sound wave to completely cancel out another sound wave?	
14.	How many beats per second are heard when a 494 Hz and 496 Hz tuning forks are struck at the same time?	
15.	What range of frequencies can an average young person normally hear?	
16.	What is an infrasonic sound?	
17.	What is an ultrasonic sound?	
18.	What are two examples of how sound travels slower than light?	
19.	What is the speed of sound in dry air at 0 degrees Celsius?	
20.	How does water vapor in the air affect the speed of sound?	
21.	How does the temperature of the air affect the speed of sound ?	
22.	What is the speed of sound in dry air at room temperature?	
23.	What does the speed of sound through a material depend upon?	
24.	How much faster does sound travel in steel than air?	
25.	How much faster does sound travel in water than air?	