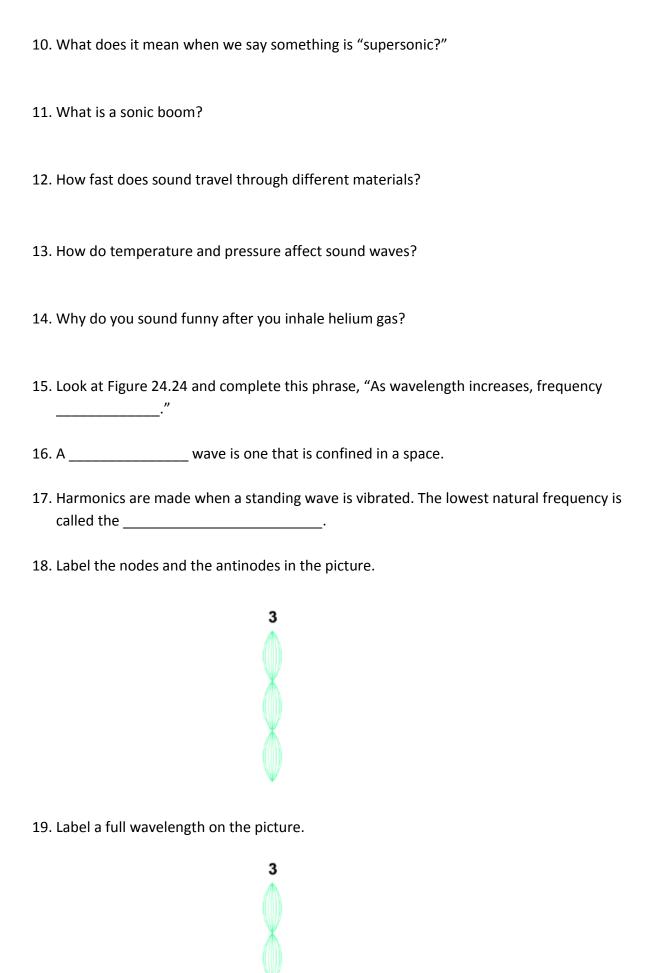
Guided Reading Chapter 24 Section 3

1.	Sound moves through a or material when the atoms with the material push against each other, transferring the energy from one particle to the next.							
2.	Sketch t	-	e atoms in a soun	d wave, showing areas of higher and lower				
3.	The perception of high or low sounds is called							
4.	What frequency range can humans hear?							
5.	The is a measurement unit for intensity of sound.							
	a) met	er	b) decibel	c) degree				
6.	Complete the chart showing decibels and amplitude.							
		Decibel	Amplitude					
		0	1					
		20						
			100					
		60						
			10000					
		120	1,000,000					
7.	On the decibel scale, a "quiet whisper 1 meter away" is about decibels where a "jackhammer 3 meters away" is decibels.							
	a) 20, 1	00	b) 10, 100	c) 10-15, 90				
8.		is the science and technology of sound.						
9.								
	light at miles/sec.							



channel		anvil	hairs				
stirrup		spiral channel	cochlea (2	cochlea (2)			
eardrum		hammer	nerves				
ear cana	I	lower					
We hear	when sound enters	the	The sound then moves				
	and causes it to vibrate. Three delicate bones, the,						
	, and transfer the vibrations to the						
	along the channel respond and move tiny						
-	frequencies are heard at the wider opening of the						
21. Draw two waves	s that are "in-phase"	and two waves	that are "out-of	-phase."			
2. The Doppler effect is a shift in the of an oscillation caused by the motion of the source of the oscillation, and occurs at speeds below the speed of soun							
a) amplitude	b) freq	uency	c) speed				

20. Use the word bank to complete the paragraph explaining how we hear. You might have

to do a bit of research.