Pioneer Cornell Notes Page

1 hours		Name:	Date:	
Тор	ic: Properties of Sound	Class:	Period:	
Gre	en Group	Subject:	Teacher:	
Main ideas/Questions	:	Note Taking Column		
A question about sound that I have that I want to find out in this lesson is.	I What is sound? I A. Anything that produced when mat	What is sound? It's a vibratior produces ter vibrates and travels as a	i! sound Sound is wave.	
Why do you think a Dr. uses a stethoscope whe he wants to listen to you lungs:	n r			
Diagram some of the factors that affect sound speed.	's B. The speed of how	v fast sound travels can be) =		
Medium:	C. The speed of sou 1. The 2. The	ind can change depending up the sound of the	on these 4 factors: is traveling through. medium	
Temperature:	a t particles b. It's	and t for the particles to move ar	hey move Ind return to their original	
Density:	c. Sound can tra 3. The Medium's can return to th	when the whe	wave has passed. le temperature is higher. ow well the particles wave passes by them	
Would you be able to ta on the moon?	a. It's wh particles are b wh b c. Particles in sol back to their 4 The in a a. The travel becaus The more mo the sound wi b. The travel.	for sound to travel throughout for sound to travel throughound together (life hose particles are loosely bour are more tids don't move very far apart a original positions easily after t of the medium (r the medium, the se sound needs to get the moleolecules there are the wave the harder it is f	n the medium when the ke concrete) rather than nd like sand or than liquids or gases. and they passes the number of particles the sound can ecules for t to	

How is frequency	II and frequency.		
measured?	A. PIICH IS NOWOF NOWITHE SOUTHORS.		
	are moving or		
	2complete vibration, one compression and one		
	makes up a wave, so the pitch of the sound depends on the number of		
Give an example of a	waves produced within time.		
musical instrument that	3. This is the definition of frequency and it's measure in		
has a high frequency .	a. Sound waves that have a frequency will have a		
A low frequency?	b. Sound waves that have a frequency will have a pitch		
	B. Frequencies is an especially important of sound because		
	the can respond to only frequencies.		
	1. The normal human ear is capable of detecting about		
	per second, or hertz.		
	2. Sounds with higher frequencies than this are called		
	because they are the range of hearing.		
	a. Some animals, such as dogs, can hear frequencies up to		
	b. can hear frequencies as high as hertz		
Give examples of what	c. Porpoises can her frequencies up to hertz		
produces infrasonic	d. actually produce ultrasonic sounds then use the		
waves.	to locate prey or to avoid into objects.		
	3. Sound wave frequencies below 20,000 hertz are called		
	You hear these either		
	a. Elephants can communicate when their voices are at frequencies		
	of hear		
	b and volcanoes can have frequencies as low as Hz		
	2. Now Look on page 554 in the green Glenco science book. Copy the		
	Information on now fast sound travels from <i>figure 17.8</i>		
Summary: please write a	summary about what you've learned from these notes. Your		
summary needs to be fro	om 6-8 sentences. You can add additional information that you have		
researched to receive 4 p	notes on your summary. Remember sentences start with capital letters		
anu enu with enu-marks.	include key words. nequency, pitch hertz infrasonic and unrasonic		