Name_	Key	Class	Date	***************************************
Study	Guide Sound Quiz -	-What Does It Sound	Like?	
	Describe the factors vibrating objects.	that affect pitch and	loudness of sound	d produced by
ā	. Pitch	is the highn	ess or lowness of	a sound.
b	wave.	y is the speed	of the vibration i	n a sound
C	. Changing the	Size		
	TAME FAIR 27	an	d	
	pitch of the sound	when it vibrates.	of an object	affects the
d.	The smaller items larger item.	usually have a/	gher	pitch than a
e.	Volume	is the low	ıdness of a sound	
f.	Changing the	energy	i	n the vibration
	affects the loudnes			
g.	The more enc	rgy in th	e vibration, the	
2. De:	scribe how you can	produce different nite	chas with a rubba	r band.
pluck tensi 3. Des	the band it wo on and pluck scribe how you can	the band to all have a higher the band it woroduce different volumers bar with more	r pitch. If your produce of mes with a xylop	nsion. When you low loosen the lower pitch. hone.
200NG 0	ing with 185	torce to produce	La softer s	ound
4. Des	cribe how you could	d produce a loud, low-	-pitched sound wi	th a recorder.
		all the holes of		
	- oduce a loc	d, low-pitche	ed sound.	I I

5.	De	escribe how	sound is transmitted, refle	cted and absorbed.			
	Sound travels differently through solids, liquids and gases.						
	a.	Sound trave	els fastest through <u>Solic</u>	s and slow	est in		
		gases	·				
	b.	Smaller, so	fter, more irregular materi	als absorb			
		sound bette	er.				
	c.	Harder, mo	re regular, and larger obje	cts <u>reflect</u>	sound		
		better.					
(d.	Sound that	is reflected can be heard a	san <u>echo</u>	Martin Control		
			reflected				
1	f.	Sono		is used by boats to l	ocate		
		objects belo	ow the surface of the wate	r.			
٤	g .	Echol	ocation	is used by bats to "see	<u>.</u> ".		
ł	ո.		sonography	is used to see organ	is inside		
		the body.					
i	•	Explain why	you will hear echoes whe	n you bounce a basketbal	l in an		
	(empty gymr	nasium, but not in a crowd	ed gymnasium.			
	5	bound w	aves easily refle	ct off the smo	oth,		
			s, floors + ceiling				
	<u> </u>	using yo	ou to hear echoes	s. When the ay	<u>mnasi</u> um		
all the same of th	S	All o	f people and obj	cts, sound war	ws.		
()	LVE	Labsor	bed by these soft	irregular object	ts 50		
E	20	hoes av	e not snotuced	as easily			

6.	Name the three types of musical instruments and how they produce					
9	sound.					
â	a. <u>Stringed</u> instruments produce sound when					
	the strings are plucked, strummed or rubbed with a bow ubrating they instruments produce sound when					
b	instruments produce sound when					
	<u>Air is blown into the mouth piece vibrating the air column</u> . <u>Percussion</u> <u>instruments produce sound when</u>					
C.	. Percussioninstruments produce sound when					
	they are struck or shaken vibrating the instrument					
7. a.	Loudness is measured using <u>decibels</u> .					
b.	Frequency is measured using					
	Dertz.					
c.	Ultra Son 12 are frequencies that are too high for the					
human ear.						
d.	The apparent change in pitch of a sound caused by the relative motion					
	tween the source of the sound and the observer is the					
D	oppler Effect . (Think of fire truck siren as it moves					
towards you and moves away.)						