

Sound Review Sheet

Nane	
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7 Nail

Thick Rubber Band
Thin Rubber Band

	€					
	Assessment is on _			3		
Mate	ch the term to its meaning.	A. rate of vi	hration ((cheed)		
	1 pitch	B. the way s		-	» d	
	2 waves	C. highness				
	3volume	D. loudness				
	4 frequency	D. loudness	or quierri		۵.,۵	
	Read each characteristic. Wri absorb.					
a	soaking in sound	f	ho	ırd, smoot	th mater	ials
b	light bouncing off a mir	ror g	bo	ouncing so	und	
c	pillow	h	aL	ıditorium	full of pe	eople
d	reflecting sound	i	er	npty audi	torium	
	soft, fluffy materials					
6.	A teacher fills five glasses will lightly taps each glass, and The ron the amount of sound varies from glass to glass	ate of vibrati	is mo on of eac	ide by the ch glass v	e aries dep	ending
7.	Label the pitch of each glass.					F
8.	Students pluck the rubber bands on the instrument. Label the highest and lowest					
	pitched rubber	Instrument				
	bands.	9			Key	
		<u> چومند تستنسب کی در </u>	11 1			1

9. Match the relationship between pitch and frequency. Then match the ways to change the pitch of a sound Higher pitch A. increase frequency (faster) Lower pitch B. decrease frequency (slower) High pitch C. short High pitch D. thick High pitch E. tight High pitch F. long Low pitch G. loose Low pitch H. thin Low pitch I. vibrate quickly Low pitch J. vibrate slowly 10. A student plays his trumpet on the stage of an empty auditorium. He hears the sound echo back to the stage. When the auditorium is full of people, he does not hear an echo. The sound echoes in the empty auditorium because off the _____ and vibrations ___. In the full auditorium, sound gets ____ by the _____ and Setup 1 Paper Cup 11. Two students want to find out what affects the sounds heard Thin String through model telephones. They investigate the tightness of the Setup 2 material connecting the cups. The first three setups are shown. Thin String They use the same length of string or wire in each setup. The boys repeat Setup 3 Paper Cup

the same sounds at the same volume

The sound was heard in setup 1

each time.

because ___

They record results of the three setups in the table below.

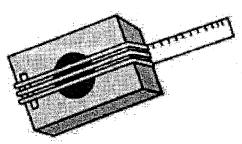
Model Telephone Investigation

Thin Wire

Description of Sound Fleard
Sound is Muffled
No Sound is Heard
Sound is Clear

13. The vo	riable th	at changed	between setup	1 and setup 3	3 is
14. Explai	n what ho	appened to	the sound ener	gy in setup 2.	
15. The s c	ound was	clearer in s	etup 3 than in	setup 1 becau	se
			better transm		
19. 20.	gas solid cher sho	Speed	D. spee E. caus	d of sound in a ed of light thr e of sound data about the Speed o in W	ough air ne speed of sound
and w					Speed melen/second)
and w	:	Temperciure	Speed (meters/second)		Welet/secord)
and w		Temperature			1,526
and w			(meters/second)		
and w		чос	(meters/second) 356	H0°C	1,526

22. A teacher makes a model guitar by using an open box for the guitar body and rubber bands for the strings. Students observe that the pitch of the sound produced by each rubber band depends on how tight the rubber band is. The tightness can change the



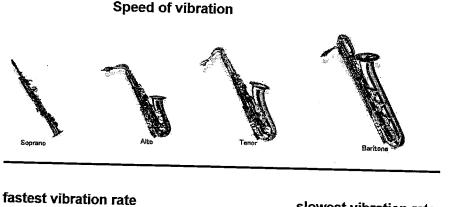
because it makes the rubber band vibrate

Scample	Amount of Water	Vibration per Second
Gkas A	240 mL- 180 mL- 120 mL- 40 mL-	500
Close 6	240 m.l - 180 m.l - 120 m.l - 50 m.l - 1	<i>\$</i> 00
	240 mL- 180 mL- 120 mL- 50 mL-	700

- 23. A student investigates the pitch of sound with identical water glasses containing different amounts of water. The table shows the vibration rate of each sound. Add water lines to fill each glass to play the correct pitch.
- 24. A student taps each glass with a spoon and observes that each produces a sound with a different pitch. This happens because the amount of _ in the glass affects the _. Label the pitch of each glass.

ncreasing pitch

25. Students are observing the highest pitches that instruments can reach. Students arrange the instruments in a line to show the fastest to slowest vibration rate. Create a graph to match the students' observations. The higher the instrument's pitch, the higher the mark on the graph.



Instrument Pitch Alto Baritone Soprano Ten

slowest vibration rate