Sound Review Sheet

님이 무슨 문화보통하다 내 아래전한 마르는 말이 내 그 회사가 가졌다. 그리고 무슨 맛이 살아 하는 것이 그 모두 사용했다. 사이트의 아래

Answers

	Assessment is on	
Mat	tch the term to its meaning.	
	1. C pitch	A. rate of vibration (speed)
	2. B waves	B. the way sound is transmitted
	3. D volume	C. highness or lowness of sound
	4. A frequency	D. loudness or quietness of sound
5.	Read each characteristic. Writ	re E if it relates to echo and A if it relates to
a	A soaking in sound	f hard, smooth materials
b		or g. <u>E</u> bouncing sound
c	_A_ pillow	h. A auditorium full of people
d	E reflecting sound	i empty auditorium
e	Asoft, fluffy materials	
6.	lightly taps each glass, and Some Significant of Si	te of vibration of each glass varies depending in the glass. Which property of the
7.	Label the pitch of each glass.	9999
8.	Students pluck the rubber bands on the instrument. Label the highest and lowest	Lowest and middle and Highest
	pitched rubber	Instrument lowest highest
	bands. LOW A B C C E C E C E C E C E C E C E C E C E	Key Nail Thick Rubber Band Thin Rubber Band

9.	match the relationship between	n pitch and trequency. Then match the ways
Λ	change the pitch of a sound	
H	Higher pitch	A. increase frequency (faster)
B	Lower pitch	B. decrease frequency (slower)
C	High pitch	C. short
E	High pitch	D. thick
H	High pitch	E. tight
Ï	High pitch	F. long
D	Low pitch	G. loose
F	Low pitch	H. thin
G	Low pitch	I. vibrate quickly
J.	Low pitch	J. vibrate slowly
10.	the sound echo back to the stag does not hear an echo. The soun vibrations <u>reflect</u>	the stage of an empty auditorium. He hears ge. When the auditorium is full of people, he nd echoes in the empty auditorium because off the <u>lapty seats</u> and full auditorium, sound gets
11.	Two students want to find out what affects the sounds heard through model telephones. They	
	investigate the tightness of the material connecting the cups.	Paper Cup Setup 2 Paper Cup

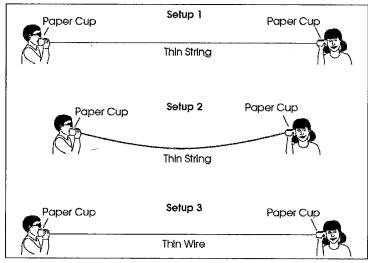
The first three setups are shown.

They use the same length of string or wire in each setup. The boys repeat the same sounds at the same volume

each time.

The sound was heard in setup 1

String vibrates.



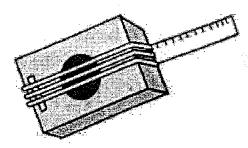
They record results of the three setups in the table below.

Model Telephone Investigation

	. •	
Setup	Description of Sound Hea	ard
1	Sound is Muffled	
2	No Sound is Heard	
3	Sound is Clear	

12. The variable in	_	•	o 1 and setup	L 15			
tightness of string.							
13. The variable t	hat changed	l between setu	o 1 and setup	3 is			
modi	um (s	string or	(1)(0)				
		\mathcal{O}			·		
14. Explain what h	nappened to String	the sound ener	rgy in setup 2 Vibrate	·			
15. The sound was	clearer in s	setup 3 than in	setup 1 becar	ıse			
wire	is a	better transm	itter of $S0$	und			
			· · · · · · · · · · · · · · · · · · ·				
Match the word to	•		/fortact than	nsmitter of sour	nd		
E 16. vibration	_			ismitter of sour			
D 17. 300,000 C 18. 343 met	•	- •	d of sound in				
19. gas	ers per sect		ed of light thr				
\bigwedge 20. solid		•	e of sound	3			
$_{\rm h}$ H							
21. A teacher sho	ows a studen	nt the following	data about t	he speed of sou	nd in air		
21. A teacher sho and water.	ows a studen	nt the following	data about t	he speed of sou	nd in air		
	Speed	of Sound	Speed	of Sound	nd in air		
	Speed (of Sound Air	Speed o	of Sound Cater	nd in air		
	Speed (in	of Sound Air 5peed	Speed of in W	of Sound	nd in air		
	Speed (in	of Sound Air	Speed of in W	of Sound Cater Speed	nd in air		
	Speed in	of Sound Air Speed (meters/second)	Speed of in W	of Sound (atter Speed (melen/second)	nd in air		
	Speed in Interpretative	of Sound Ait Speed (meters/second)	Speed of in W	of Sound (ater Speed (meter/second)	nd in air		
and water.	Speed in In Itemperature 40°C 20°C 0°C	Speed (meters/second) 356 343 331	Speed of in W Temperature 40°C 20°C E°C	Speed (melen/second) 1.526 1,481			
and water. Based on the	Speed in Temperature 40°C 20°C 0°C tables, the	Speed (meters/second) 356 343 331 student can co	Speed of in W Temperature 40°C 20°C 0°C nclude that see	Speed (melen/second) 1,526 1,481 1,403 ound travels fas	eter in		
and water. Based on the	Speed in Temperature 40°C 20°C 0°C tables, the	of Sound Air Speed (meters/second) 356 343 331 student can co than	Speed of in W Temperature 40°C 20°C 0°C nclude that see	Speed (melen/second) 1.526 1,481	eter in		
Based on the (WAH) Sound travels	Speed in Temperature 40°C 20°C 0°C tables, the	of Sound Air Speed (meters/second) 356 343 331 student can co than	Speed of in W Temperature 40°C 20°C 0°C nclude that see	Speed (melen/second) 1,526 1,481 1,403 ound travels fas	eter in		

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



Frequency because it makes the rubber band vibrate

Sample Amount of Water per Second

Glass A 240 mL Som

Glass B 240 mL Som

60 mL Medium

Glass C 120 mL

Nigh

- 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.

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.

