

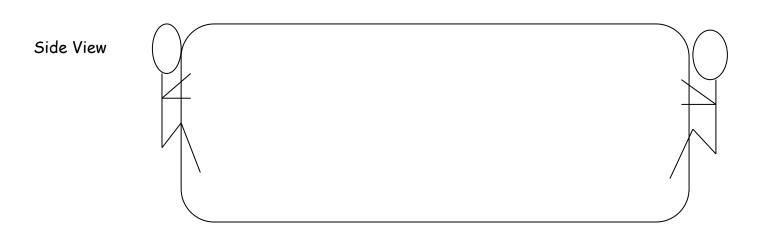
Name____

What is Sound?

Sound is a type of energy made by
Describe how an object vibrating creates sound.
The material a wave travels through is called a

STATION 1: SURFS UP!

Draw what the slinky looks like while it is moving. Include arrows showing the direction of motion.



The WAVE you see is showing ______ moving through the slinky!

STATION 2: CANNONBALL!

Draw what happens to the marbles.
Describe what you see happens to the marbles.
Explain why you think this happened in your booklet.
STATION 3: RUBBER BAND VIBRATIONS
What do you hear when your partner plucks the center of the rubber band?
What do you see vibrating?
Now repeat this with the thick rubber band. What do you notice is the difference in sound between the thick and the thin rubber band?

STATION 4: SINGING RULERS

Did you see the ruler vibrate?			
Did it make a sound?			
How does the sound change when you move the ruler so less is hanging off the			
edge?			
STATION 5: TUNING A FORK?			
What do you observe when you brought the tuning fork near your ear and			
listened?			
What do you observe when the tuning fork was placed in the water?			
STATION 6: SALT DRUM			
What happens to the salt on the drum?			
Why is this happening?			
Make a connection: When you bang a drum and make a sound, something is			
vibrating all the way to your eardrums- what is it?			

STATION 7: STRAW MUSIC

Describe the sound you hear through the	ne straw. Is it high or low?	
What can you think of that also sounds	like that?	
Predict: What can you do to the straw t	to change the pitch?	
Record below what you tried and how	the pitch changed.	
Describe how you changed the	How did the Pitch Change	
straw.	(HIGHER or LOWER)	
ACTIVITY 8: T	'AP-TAP-TAP	
Which time did you hear the sound of our tapping finger louder?		
Based on this experiment, does sound to (table) or a materials (air)?	•	
(table) or gas materials (air)?		

STATION 9: RUBBER, STRING OR METAL?

Through which medium (string, rubber or metal) did you hear the sound of the vibrating coat hanger best?
Why do you think that material transferred sound best?
STATION 10: TELEPHONE
Which works better: When the string is TIGHT or LOOSE? Why do you think this is?
QUESTIONS ABOUT SOUND?
Now that you have completed these activities, what questions do you still have about sound?

Find out the answers!

Name
Design your own Musical Instrument!
Use recycled materials (or things you find around your house to create an instrument that that vibrates and makes sound. The design should include a way for you to change the pitch of the sound.
MATERIALS USED:
DRAW YOUR DESIGN:

EVALUATE:

What was difficult about making an instrument?

What would you do differently next time?