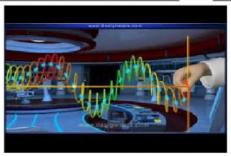
lame	Date
------	------



https://www.youtube.com/watch?v=GkNJvZINSEY

## **Transmission of Sound**

Every sound is produced by a **vibration**, which is the back and forth movement of an object. As you speak, vibrations are produced by the vocal cords in the throat; however you can hear them only when the sound energy reaches your ears. But how does the sound energy travel? Sound energy travels in the form of **sound waves**. There are mainly two types of sound waves. They are the **transverse** and the **longitudinal**.

- 1) The back and forth movement of an object is called \_\_\_\_\_\_.
- 2) You can hear sounds before sound waves reach your ears. T
- 3) Sound energy travels in the form of \_\_\_\_\_\_.
- 4) What are the two types of sound waves?

In a **transverse wave**, the particles vibrate at a right angle to the direction of the wave. This means as the sound wave moves, the particles vibrate up and down in a **perpendicular** pattern.

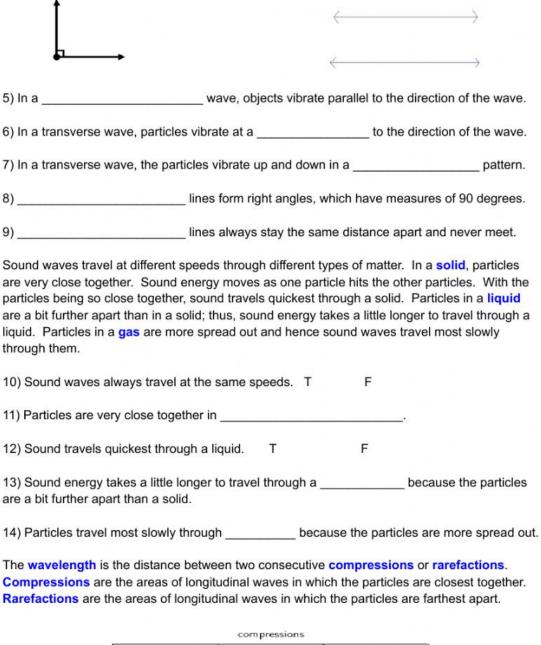


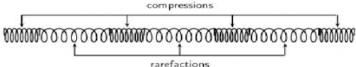
In a longitudinal wave, the particles vibrate parallel to the direction of the wave.



## Perpendicular Lines Form Right Angles

## Parallel Lines Stay the Same Distance Apart





15) The distance between two consecutive	compressions or ra	arefactions is a	-
16) are t are farthest apart.	the areas of longitud	dinal waves in which the particle	s
are farthest apart.			
17) are t	the areas of longitud	dinal waves in which the particle	S
are closest together.			
The number of waves passing through poir measured in <b>hertz</b> . Sound waves travel in bounces back on hitting a solid surface. Both	all directions. Sour	nd gets reflected, that is that it	
18) The number of waves passing through	points in a second i	is called the	-
19) Frequency is measured in	·		
20) Sound waves travel in only one direction	on. T	F	
21) The bouncing back of sound off a solid	surface is called an	·	
READ AND RETYPE THE VOCABULARY	WORDS WITHOU	T THE HYPHENS:	
22) vi-bra-tion			
23) trans-verse			
24) lon-gi-tu-di-nal			
25) per-pen-di-cu-lar			
26) par-al-lel			
27) com-pres-sion			
28) rar-e-fac-tion			
29) ech-o			
30) fre-quen-cy			
LABEL THE SOUND WAVES AS LONGIT	UDINAL OR TRAN	SVERSE:	
31)	32)	000000000000000000000000000000000000000	