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Name:	Date:	
	<b>D</b> 4.0.	

## **Vocabulary Chart**

Complete the chart below.

Vocabulary Word	Definition	How am I going to remember it?
Wave		
Sound wave		
Medium		
Transmitted		
Absorbed		

Have Wave;	Will	<b>Travel</b>
Who is C	`orre	ct?

One hot summer day, your Mom tells you and your friends that you can have ice cream when the train comes through town. You and your friends decide to have a contest to see who will hear the train first. You decide to jump in the swimming pool and listen underwater because you think water will help you feel and hear the sound vibration quickest. Mary sits on a chair because she thinks that air is thinner and that the sound will travel faster through a thinner medium. Johnny puts his ear to the ground because he remembered from an old cowboys-and-Indians movie that Indians listened through the ground to hear the cowboys coming from a distance. Who will hear the train first? Explain why that person is correct.

## Hint:

- Draw a molecular particle drawing of the three states of matter.
- Remember, sound waves travel by vibration from particle to particle.
- Draw an arrow from one particle to the other. The size of the arrow represents the speed that the sound wave will travel!

Solid	Liquid	'	Gas



## **Check Understanding**

**Directions:** Fill in the blanks using the word bank below.

## **Word Bank**

Reflected	d	Darker	Infrared	Electromagnetic	Ultraviolet
Wavele	ngth	Waves	Temperature	Darker	Absorbed
Electromagn	etic	affect	materials in different	t ways. When	
-		waves are		they are taken in by	a material.
Alternatively	, when the	waves are	the	ey are scattered bacl	k in multiple
			tter the electromagne		
			vaves encounter ma		
			ntensity, amount, and	_	of the
electromagn			ow much the		
increase. Not all waves in the spectrum cause a temperature changewaves					
that are used	d with sate	llite imaging a	nd television remote	s will not cause a ter	nperature change,
whilewaves from the sun will.					
Directions: A	nswer the	questions bel	ow using complete s	entences.	
1. Explain why a swimming pool deck can become too warm to stand on in the summertime.					
2. A water bo larger. Exp		•	poster. The letters s	seen through the wat	er bottle appear
<del></del>					