The Nature of Waves Reading Name: _____
Page 4- 9

Pre Reading: Draw a wave

Read Page 4- Take 2-3 bullet point notes on important information.

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Wave: a periodic disturbance in a solid, liquid, or gas As energy is transmitted through a medium. Re-write this in your own words:

Read Waves at work on page 5.
Waves carry energy. Think of a colorful parachute you would use in gym class to bounce a ball from one person to the next. How do you know by looking at the parachute that waves are transferring energy?

_____

_____

Read Energy Transfer through a Medium on page 5

Medium: the substance a wave travels through.

What are 3 examples of media (plural of medium) that waves can travel through?
a.

b.

c.

Read page 6.

What are characteristics of each?

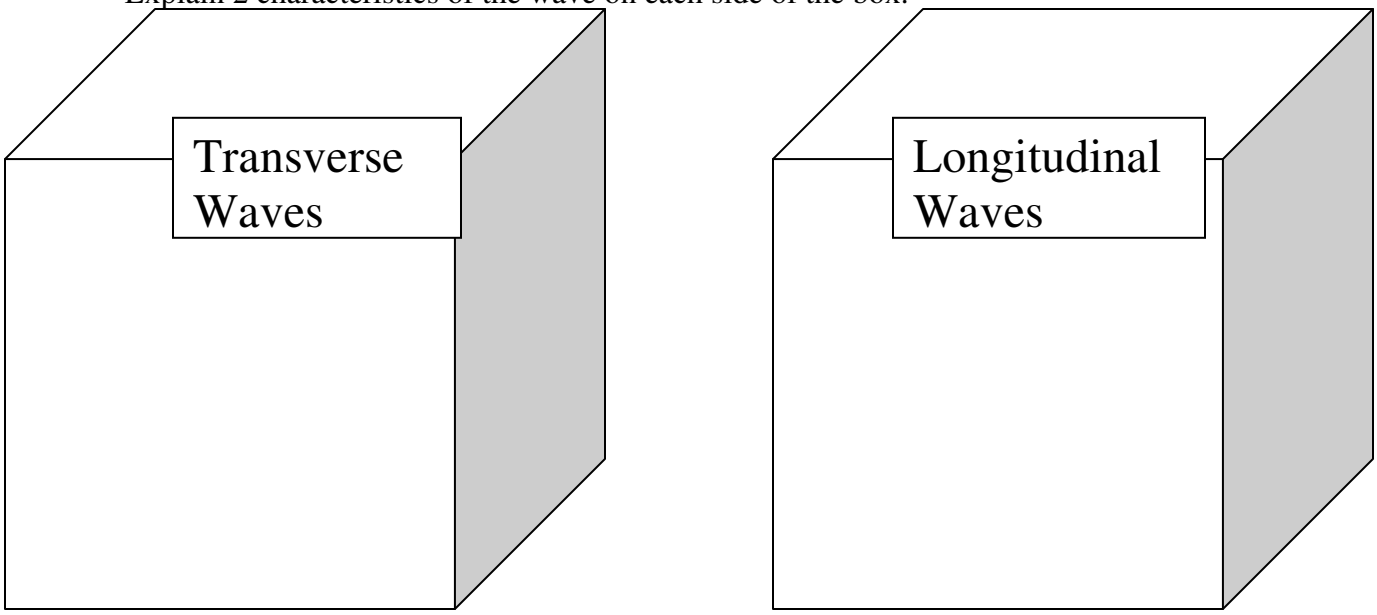
Mechanical Wave

Electromagnetic Waves

What type of wave is each of these and how do you know?

Waves	Mechanical or Electromagnetic	How do you know?
Sound Wave		
Earthquake		
Light		
Ocean Wave		
X-Ray		

Types of Waves page 7: Draw each type of wave on the front of the box.
Explain 2 characteristics of the wave on each side of the box.



How do you tell the difference? Use a ball. When you look at the wave would the ball bounce up and down or back and forth? If it is bouncing up and down it is most likely a transverse wave. If it is going back and forth, it is probably a longitudinal wave.

Are these longitudinal or transverse waves? (Think about the ball)

Wave	Longitudinal or Transverse?