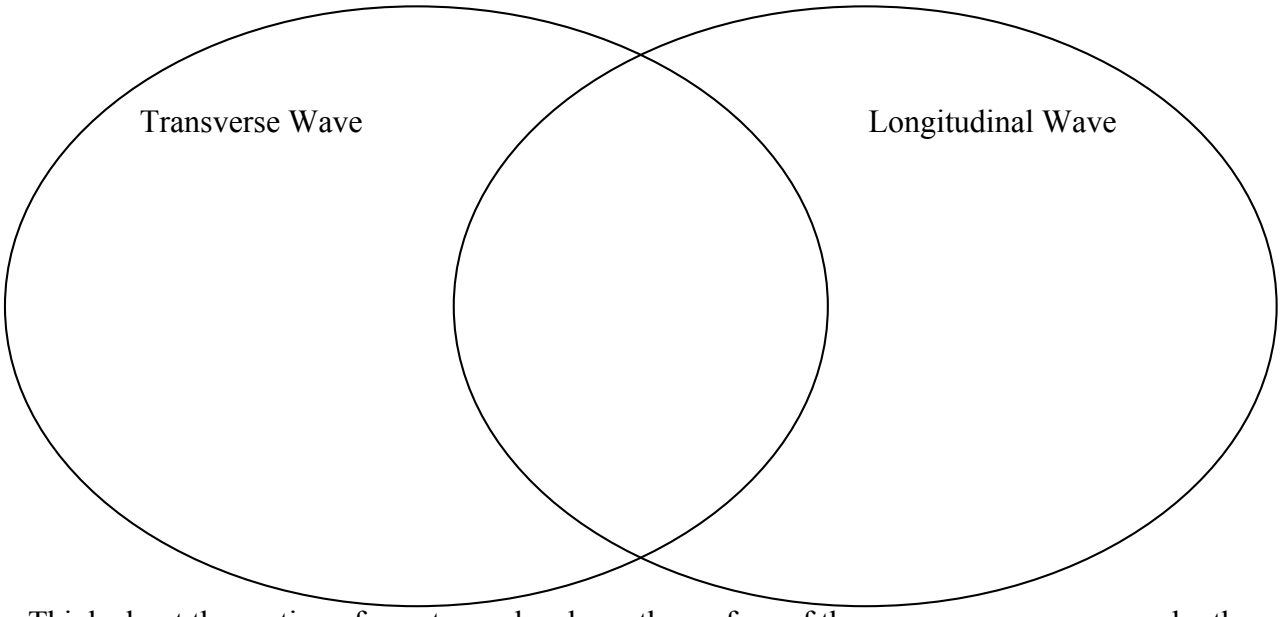
Self-Check

1. Identify three different types of waves:
   a. . b. c.

2. Identify the medium for the following waves:
   a. Ripples on a pond. The medium is _____
   b. The sound waves from a stereo speaker. The medium is _____
   c. Seismic waves. The medium is _____

3. Name the one kind of wave that does not require a medium:

4. How are a transverse wave and a longitudinal wave alike? Fill this in on the center section of the Venn diagram
5. How are a transverse wave and a longitudinal wave different (contrast)? Fill this information in under the headings of "transverse" and "longitudinal" on the Venn diagram.



6. Think about the motion of a water molecule on the surface of the ocean as a wave passes by the Oregon Coast on its way to California. Does the molecule move up and down as well as forward and backward at the same time, or does it move along with the wave - all the way to California?
   a. My answer is:

   b. My reasoning is:

Outcome Statement: One thing I learned today was . . .

Topic:_____

Name:_____ Date:_____ Period:____

Twenty questions **"What am I?"**

Guess # __ I am a . . . Guess # __ I am a . . .

Objectives:

Word	**What is it? Examples**	**How did I learn this? How will I remember this?**
	Examples: Ocean . . . *Definition: D_____ that transmits e_____ through m_____ and s_____.*	Words that precede the word "wave"? What do these words have in common? How did I learn this? How will I remember this?
	Examples: solids. . . *Definition: Any o_____ or m_____ that a wave can travel through*	What things do waves move through? How did I learn this? How will I remember this?
	Examples: *Definition: A w_____ that requires a m_____ to travel through*	What type of kinetic energy is associated with motion? How did I learn this? How will I remember this?
	Examples: Definition: *A wave caused by a disturbance in e_____ and m_____ fields and that does **not** require a m_____ (light wave).*	What type of energy can move through the vacuum of space? How did I learn this? How will I remember this?
	Definition: A wave that causes the particles to move p_____. (⊥) *to the d_____ of the wave.*	How did I learn this? How will I remember this?
	Wave that causes the particles of the medium to vibrate p_____. (∥) *to the direction the wave travels.*	How did I learn this? How will I remember this?