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 . . .
### Twenty questions “What am I?”

<table>
<thead>
<tr>
<th>Guess # ___ I am a . . .</th>
<th>Guess # ___ I am a . . .</th>
</tr>
</thead>
</table>

#### Objectives:

<table>
<thead>
<tr>
<th>Word</th>
<th>What is it?</th>
<th>Examples</th>
<th>How did I learn this?</th>
<th>How will I remember this?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examples: Ocean . .</td>
<td><strong>Definition:</strong> A wave caused by a disturbance in e___________ and m___________ fields and that does not require a m___________ (light wave).</td>
<td><strong>Examples:</strong></td>
<td><strong>How did I learn this?</strong></td>
<td><strong>How will I remember this?</strong></td>
</tr>
<tr>
<td>Examples: solids . .</td>
<td><strong>Definition:</strong> Any o___________ or m___________ that a wave can travel through</td>
<td><strong>Examples:</strong></td>
<td><strong>How did I learn this?</strong></td>
<td><strong>How will I remember this?</strong></td>
</tr>
<tr>
<td>Examples:</td>
<td><strong>Definition:</strong> A w___________ that requires a m___________ to travel through</td>
<td></td>
<td><strong>How did I learn this?</strong></td>
<td><strong>How will I remember this?</strong></td>
</tr>
<tr>
<td>Examples:</td>
<td><strong>Definition:</strong> D___________ that transmits e___________ through m___________ and s___________ .</td>
<td></td>
<td><strong>How did I learn this?</strong></td>
<td><strong>How will I remember this?</strong></td>
</tr>
</tbody>
</table>

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**Note:**
- Words that precede the word “wave”?
- What do these words have in common?
- How did I learn this?
- How will I remember this?