## Chapter 11.2 Notes: Characteristics of Waves

**Objective**

<table>
<thead>
<tr>
<th>Word</th>
<th>What is it? Examples</th>
<th>How did I learn this?</th>
<th>How will I remember this?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crest</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trough</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amplitude</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wavelength</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Period</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Word</td>
<td>What is it?</td>
<td>Examples</td>
<td>How did I learn this?</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>----------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wave speed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Student Self Quiz**

1. In the diagram above, label the following parts:
   a. Normal or Rest
   b. Trough
   c. Wavelength
d. Crest
e. Amplitude

2. If the diagram above represent one second of wave, what is its frequency?
   a. 6 Hz
   b. 3 Hz
c. $6 \lambda$
d. $3 \lambda$

3. The wavelength of the wave in the diagram is
   a. 6.0 m
   b. 3 m
c. 1.5 m
d. 0.75 m

4. A man is standing on the shore of a beach, up to his knees in water. Every 5 seconds a wave breaks on him. What is the period of the wave?
   a. 12 waves per minute
   b. 5 seconds
c. 5 hertz
d. 0.2 hertz

5. A train of waves is moving at a speed of 30 m/s. The frequency of the waves is 10 Hz. What is the wavelength?
   a. 300 m
   b. 3 m
c. 30 m
d. 0.1 m

6. A wave along a guitar sting has a frequency of 440 Hz and a wavelength of 1.5 m. What is the speed of the wave?