

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

**Tsunami Physics WebQuest**  
**Waves Worksheet**  
Developed by Isadel Eddy, March 2009

*This worksheet is intended to go along with the WebQuest “Tsunami Physics” and must be completed as part of the waves review.*

1. What is the difference between a traveling wave and a standing wave?
2. Find three examples of mechanical waves.
3. Can mechanical waves travel in a vacuum? Why or why not?

4. Discuss visible light: its place on the electromagnetic spectrum, the different wavelengths of various colors, and the variations in wavelengths compared with the rest of the spectrum.
  
  
  
  
  
  
  
  
  
  
5. Draw a picture of a longitudinal wave pattern. What demonstration could be used to show longitudinal wave motion?
  
  
  
  
  
  
  
  
  
  
6. Discuss the relative abundance of transverse and longitudinal waves.
  
  
  
  
  
  
  
  
  
  
7. Define the parts of a wave: node, antinode, crest, trough.