## Science 2 ~ Ch. 9 Waves Study Guide ~ Test: Tuesday 10/4/16 and Wednesday 10/5/16

1. What is a wave?	
2 Distinguish between Adaphanial Managard of Flatherman tis Mana	
2. Distinguish between a Mechanical Wave and an Electromagnetic Wave	
3. In what direction do particles move in a Transverse Wave versus a	
Longitudinal Wave?	
4. What are the highest point and lowest point of a Transverse Wave called?	
5. What are the areas of Compression and Rarefaction in a Longitudinal Wave?	
of what are the areas of compression and harefuelion in a congitudinal wave.	
6. How is wavelength measured?	
7. How is the frequency of a wave determined?	
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8. If amplitude increases, then the of the wave	
9. What formula is used to calculate the speed of a wave?	
10. In what 6 ways do waves interact with matter and each other?	
11. What are the 3 different types of wave interference?	
12. What does the Law of Reflection state?	
Matching	
Match each item with the correct statement below.	
a. amplitude b. electromagnetic wave	
c. diffraction	
d. reflection	
e. refraction	
does not require a medium to travel through	
2. why light shines off a mirror	
3. related to the energy of a wave	
<ul><li>4. the changing of the speed of a wave</li><li>5. the spreading out of waves around a barrier</li></ul>	
3. the spreading out of waves around a partiel	