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| 1. What is a wave? |  |
| 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?  |  |
| 6. How is wavelength measured? |  |
| 7. How is the frequency of a wave determined? |  |
| 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.1. amplitude
2. electromagnetic wave
3. diffraction
4. reflection
5. refraction
6. does not require a medium to travel through
7. why light shines off a mirror
8. related to the energy of a wave
9. the changing of the speed of a wave
10. the spreading out of waves around a barrier
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