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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 |  |