Directions: Find the right word from the physics vocabulary list that completes the following sentences.

1. A traveling disturbance of energy is called a \_\_\_\_\_\_\_\_\_\_\_\_.  
2. The number of wave cycles in a unit of time is called the wave \_\_\_\_\_\_\_\_\_\_\_\_.  
3. A \_\_\_\_\_\_\_\_\_\_\_\_ is an intervening substance that allows energy to pass.  
4. The energy of sound, explosions, and earthquakes are all propagated by \_\_\_\_\_\_\_\_\_\_\_\_ waves.  
5. Electromagnetism is propagated by \_\_\_\_\_\_\_\_\_\_\_\_ waves.  
6. The density of the medium is called its \_\_\_\_\_\_\_\_\_\_\_\_.  
7. \_\_\_\_\_\_\_\_\_\_\_\_ are sub-atomic particles of energy and matter propagated by electromagnetic waves. 8. Waves that change direction when they bounce off a barrier are \_\_\_\_\_\_\_\_\_\_\_\_ waves.  
9. In music, the frequency of the sound waves determine its \_\_\_\_\_\_\_\_\_\_\_\_.

10. The theory that electromagnetism is made up of both energy and sub-atomic particles is called the \_\_\_\_\_\_\_\_\_\_ .