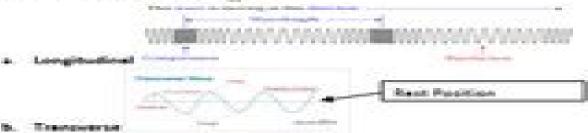
Sound and Light Final Study Guide

- 1). What is a wave, give an example.
 - A disturbance that transfers energy from place to place. EX. Water waves
- 2) What is energy? The ability to do work.
- 3) What is meant by the term "medium" "Lagg what are the three types of things that are considered mediums issue an example of each;" The material through which a wave travels.
 - at Solids Willowski
 - b. Liquid Weter:
 - g. Glass Mile
- 4) House are mechanical waves? A wave that requires a medium through which to travel.
- What are waves that do not require a medium and can travel through empty space called? Give an example. Destromagnetic Weyes - Light
- 4) How to waves transfer energy? All mediums are made of tiny particles. When a wave enters a medium, it transfers energy to the medium's particles. The particles bump into each other, passing the wave's energy along.
- What cause waves? Energy always is required to make a wave. Mechanical waves are produced when a source of energy causes a medium to vibrate.
- 3) What is a vibration? A repeated back and forth or up and down motion.
- 5). How are mechanical mayer classified? By how they move.
- 30) What are the two main types? Describe them.
 - Longitudical A wave that moves the medium in a direction parallel to the direction in which the wave travels.
 - Transverse A wave that moves the medium in a direction perpendicular to the direction in which the wave travels.
- 1.11 Draw and label such of the two types:



- 12) Which type of wave is sound? Conglaudinel
- 13) What is a rest position and why is it called that? (Label it on the transverse wave you drew in # 11). Think of the horizontal line as the position of the rope before it is disturbed. This position is called the rest position. As the wave passes, the rope moves above or below the rest position.
- 14) What is amplitude? The maximum distance the particles of a medium move away from their rest positions as a wave passes through the medium.
- 15) How does adding more energy to a viewe affect its amplitude? Amplitude is directly related to energy, more energy means a greater amplitude.

Waves Sound And Light Viewing Guide

RS Peters

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