

LAB: OBSERVING WAVE PROPERTIES

Introduction:

A wave is a disturbance that transfers energy from one place to another. Most waves require a medium to travel through. A medium is a substance or medium that carries a wave and includes water, air, ropes, and earth. Waves that require medium to travel are called mechanical waves. Transverse waves are mechanical waves in which the particles of the medium move perpendicular to the direction of wave travel. Longitudinal waves are mechanical waves in which the particles of the medium move parallel to the direction of wave travel. All waves have 4 basic properties: amplitude, wavelength, frequency, and speed.



LAB

Wave Properties



Part A...Speed of a Wave:

1. On a smooth floor, stretch out a long rope or spring toy. Have one end securely while the second person holds the other. Have the third person measure the length using a meterstick or measuring tape. Record the length in Data Table 1. Ensure the rope is stretched to the same length for each step.
2. Create a single wave pulse by having one person shake their end of the rope left, right, and left again. Observe the crests, troughs, and amplitude of the wave that is generated.
3. Create another single wave pulse with the same motion as Step 2. Have a third person measure the time required for the wave to travel the entire length of the rope. Record this value in Data Table 1.
4. Repeat step 4 two more times with the same wave motion for each test.

Part B...Frequency and Wavelength of a Wave:

5. Create a series of waves by having one person shake their end of the rope at a steady rate.
6. Continue making waves. Have the second person observe a specific part of the rope and count the number of wavelengths that pass by in 10 seconds while the third person moves with a stopwatch.
7. Record this value in Data Table 2.
8. Repeat Step 7 two more times but vary the wavelength by shaking the rope faster or slower.

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