

Name: _____
Date: _____ Period: _____

Basic Waves (Slinky) Lab

Pre Lab:

1. Define Longitudinal wave and make a labeled sketch of one. There should be five labels.
2. Define Transverse wave and make a labeled sketch of one. There should be three labels.

Materials: Slinky or spring

stopwatch

meter stick

perpendicular
to wave motion



Procedure:

1. Stretch the slinky between two group members without making it too tight. Make sure the slinky is lying on the floor.
2. Create a longitudinal wave pulse by pushing the slinky forward parallel to itself. The slinky should still be in a straight line and the wave pulse (squished up part) should travel to the other end of the slinky.
3. Measure the distance that the wave travels between people (the length of the slinky) in meters and record this distance in Data Table #0 (on the back of this paper).
4. The third person should time the wave through this distance, from one person to another. Enter this time into Data Table #0.
5. You will record the time it takes the longitudinal wave to travel from one person to another for a total of three separate times. These times will not be exactly the same but should be close to each other.
6. Average these times and enter the average in Data Table #1. To average the times add them up and divide by three.

$$\text{Average Time} = \frac{\text{Trial \#1} + \text{Trial \#2} + \text{Trial \#3}}{3}$$

7. Calculate the speed of the longitudinal wave using the equation:

$$\text{speed} \left(\frac{\text{m}}{\text{s}} \right) = \frac{\text{distance traveled (m)}}{\text{time (s)}}$$

Slinky Lab Physics Packet

Michael Hoelscher



Slinky Lab Physics Packet:

Modern Physics for Scientists and Engineers Stephen T. Thornton, Andrew F. Rex, 2000 MODERN PHYSICS FOR SCIENTIST AND ENGINEERS Second Edition incorporates a contemporary and comprehensive approach to physics with a strong emphasis on applications The author's approach incorporates a flexible organization numerous examples and problems over 700 and brings the study of modern physics alive by alluding to many current topics in physics for example high temperature superconductors neutrino mass age of the universe gamma ray bursts holography and nuclear fusion

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Friedhoffer, 1997-01 Experiments on the physical properties of common devices around the home Physical Science Labs

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The Physics Lab Manual 1 Clymer, 2022-06-23 **The Physics Lab Manual I Experiments to Accompany Physics**

1501/1610 Laboratories Clymer,2017-07-27 *Introduction to Physics Lab Manual* Joyce,2000-07-01 The Physics Lab
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