



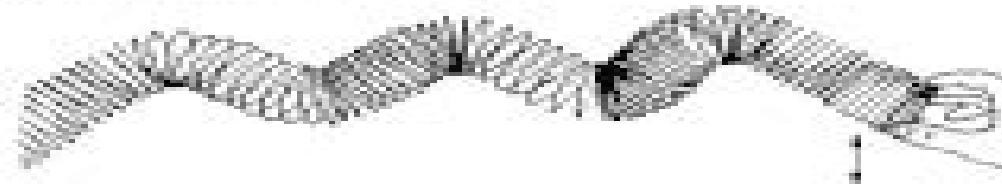
## LAB 2: Stinky Lab

### INTRODUCTION

Waves occur in all matter that is solid, liquid, gaseous, or plasma, and there are three basic types of waves that are found in the physical world: transverse waves, longitudinal waves, and longitudinal waves. When placed next to each other regardless of the medium in it travels through, or in other words, there are two separate characteristics for light waves, or sound waves, or water waves. Because of this we can investigate the characteristics of all waves using a coiled spring (stinky).

### TERMS

- DEFINITION: the medium in the material that a wave is transmitted through. For example sound waves are transmitted through air, and sound waves are transmitted through water.
- TRANSVERSE WAVE: a transverse wave is a wave in which the vibrational displacement occurs in a direction perpendicular to the motion of a wave.



- LONGITUDINAL WAVE: also known as a compression wave, is a longitudinal wave in a medium in which the vibration of displacement occurs in the same direction as the motion of the wave.



- PULSE: a single disturbance in a medium that moves along in a wave.
- WAVELLENGTH: the length of a single pulse.
- AMPLITUDE: the maximum amount a disturbance in from its rest position.
- PERIODICITY: the rate at which waves pulses pass a point.

### OBJECTIVE

The objective of this lab is to observe and investigate the basic characteristics of waves, using a coiled spring.

# Lab 11 Slinky Lab Key

**Yi-Tong Ma**

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