Transverse Waves

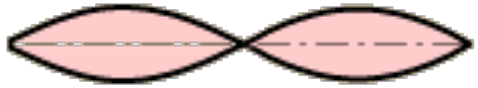
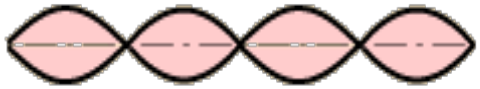
Name _____ Date _____

Important Equations:

$f = 1 / T$ $\lambda = 2L/n$ $v = f \lambda$

Data and Calculations:

Stretched Length of the spring _____

Harmonic	Time (20)	Period	f	λ	v
 2					
 3					
 4					
 5					
				Average Velocity	

Transverse Waves

Name _____ Date _____

Observations:

1. Send a pulse down to your partner, describe three things you can observe about the reflected pulse.

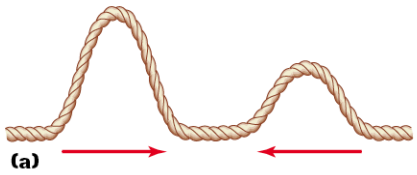
2. Describe the motions or actions that you could change in order to:

   a) increase the frequency

   b) increase the wavelength

   c) increase the amplitude

   d) increase the speed



3. Have each partner send a pulse at the same time. Try to time it so that the two pulses meet near the middle of the spring.

   a) describe the result of two pulses meeting “in Phase”