

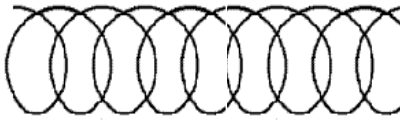
Wk31 Waves Intro

D2: Wave Motion

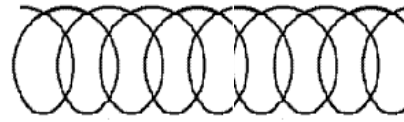
name: _____

1. Use arrows to show which way you would move the end of the slinky to make each type of wave:

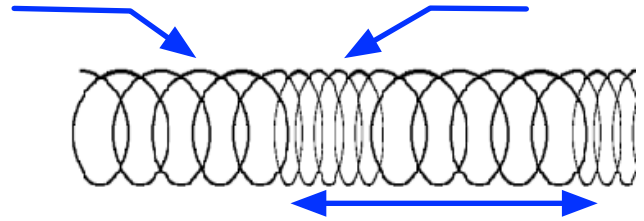
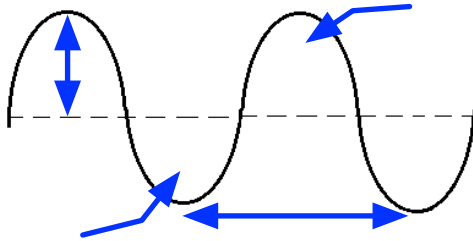
TRANSVERSE



LONGITUDINAL



2. Label each part of the wave:



3. What is meant by a vibration?

4. What is meant by the medium of a wave?

5. For each kind of wave below:

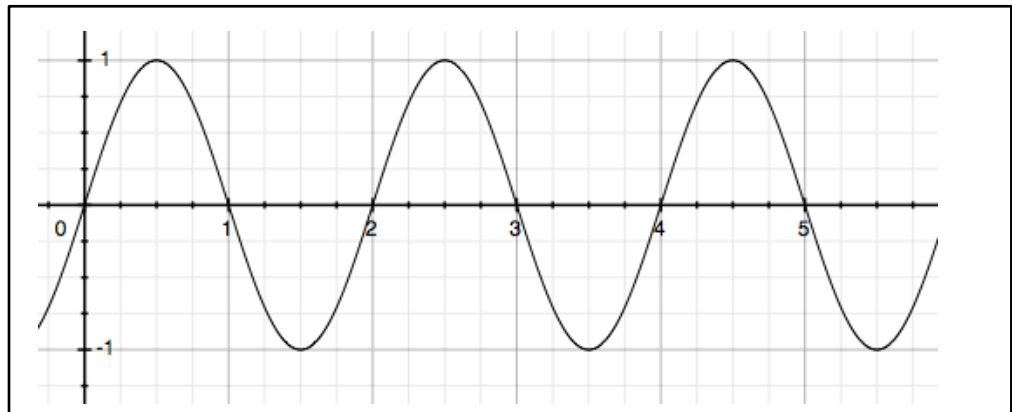
- What is its medium?
- Is it Transverse or Longitudinal?

TYPE OF WAVE	TRANSVERSE OR LONGITUDINAL?	MEDIUM
water waves		
slinky waves		
"the wave" at a stadium		
sound waves		
light waves		

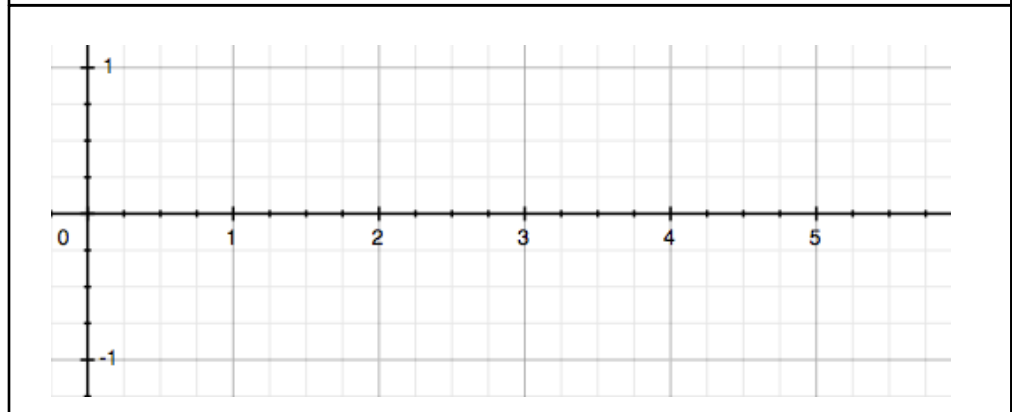
Frequency

1. What is the frequency of a wave? What is it measured in?
2. I create 10 complete waves in 5 seconds on a slinky. What is the frequency of the waves?
3. If a 2 Hz vibration sends waves toward you, how many complete wavelengths will pass by you over the course of...
 - a) 1 second?
 - b) 3 seconds?
4. Below is a wave. Sketch what the waves would look like if they were sent at twice the frequency and at half the frequency.

ORIGINAL WAVES



TWICE THE FREQUENCY



HALF THE FREQUENCY

