

P1310L, Harmonic Oscillations

Lab 13, Raw Data Sheet

Submitted by: _____ Experiment's date: _____

Team members:

1.- _____ 2.- _____

3.- _____ 4.- _____

Instructor must initial: _____

Mass-Spring Oscillator

Table 1: Spring Constant Data. The mass of the hanger is 150 g

mass (g)						
length (cm)						

Table 2: Data to obtain the Natural Frequency of the system.

Trial	Number of Oscillations	Time (s)	Period (s)
1			
2			
3			
4			

Resonance

Table 3: Data to obtain the average resonance Frequency.

trial				
freq (Hz)				

Pendulum

Table 4: Data to show deviations from simple harmonic oscillator behavior.

Pendulum Length (cm)				
Amplitude (cm)				
Period (s)				

Conical Pendulum

Table 5: Data to determine the Period of the Conical Pendulum.

Pendulum Length (cm)				
Trial				
Time (s)				
Radius (cm)				