Raw Data Sheet

Student Name: _____

Team members:
1.- _____ 2.- _____

3.- _____ 4.- _____

Instructor: _____

a) Mass-Spring Oscillator

Table 1: Data to obtain the spring constant.

mass (g)					
length (cm)					

Hanging Mass, M _____150_____ (g)

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

Trial	Number of Oscillations	Time (s)	Period (s)
1			
2			
3			
4			
5			
Average Period			

b) Resonance

Resonance Frequency, f_r _____ (Hz)

Document how the mass moves in relation to the plunger when it is driven above and below the resonant frequency.

c) Pendulum

length, l _____ (cm)

Table 3: Data to show deviations from simple harmonic oscillator behavior.

Amplitude (cm)					
Period (s)					

d) Conical Pendulum

Number of Orbits, N _____

Time, t _____ (s)

Period, T _____ (s)

radius, r _____ (cm)