Name:	

LAB 10 PRE-LAB

1.	In the Static tension activity, you will measure the length of a spring under different
	tensions, and plot a graph of length (vertical axis) against tension (horizontal axis). If the
	spring behaves as Hooke's law predicts, the graph should be a straight line.

- a. What would the slope of the line be?
- b. What would the intercept of the line be?
- 2. How would you use the graph of extension vs. tension to estimate the spring constant of the spring?
- 3. In the Oscillation activity, you will measure the periods of oscillation of different masses hanging from a spring and plot a graph of the square of period *T* (vertical axis) against mass *m* (horizontal axis). If the spring behaves as Hooke's law predicts, the graph should be a straight line.
 - a. What would the slope of the line be?
 - b. What would the intercept of the line be?
- 4. How would you use the graph of T^2 vs. m to estimate the spring constant of the spring?