	AP	Physics	Part	1 Lab	Handout	07	"Ho	oke ' s L	aw"		
Your Name:					Lab Par	tner	(s)	:			
Purpose: To	o de	termine	the s	spring	constant	for	c a	couple	of	springs.	
Materials: Hooke's	s Lav	w Device		slot	t masses						
Procedure:											

Results:

Observations:

Data:

Data Analysis:

- 1. Using the data, plot a graph of force applied vs. the displacement from rest position. On this particular graph the independent variable (the one you the experimenter controlled), will actually go on the y-axis to allow for the slope to equal the spring constant. Use Microsoft Excel to create your graph (x-y scatter plot) and make sure that the x and y axes are labeled correctly.
- 2. Using the data, plot a similar graph for your second spring.
- 3. Do a trend line analysis of both graphs.
- 4. Using the graphs, show the relationship, which exists, between force applied and displacement from rest position. Express this relationship in a simple formula.

Diagram:

Error Analysis:

Conclusion: