Lab: Hooke's Law

mass (g)	force (wt) exerted (N)	stretch (cm)
0	0	0
20		
60		
100		
160		
200		
240		

N	lame		
	~!!!		

Label the x-axis with the _____variable.

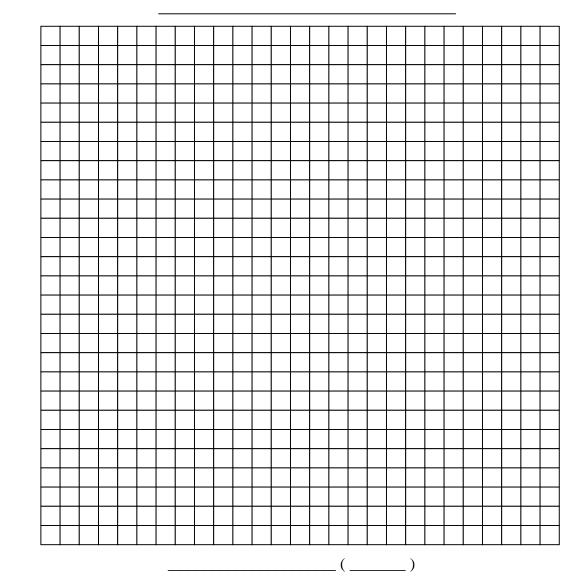
In this experiment, this is ______.

Label the y-axis with the _____variable.

In this experiment, this is ______.

Make a best-fit line or curve and add a title when instructed to do so.

Complete the graph when instructed to do so. Do NOT work ahead.



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Conclusions/Questions:

	his graph shows a proportion. This is evident because the
sl	nape of the graph is a
	nterpolate and extrapolate these answers. Circle which process you used to find your nswer.
l.	How far will the spring stretch if 1.8 N of force is applied? (interpolated, extrapolated)
2.	What force was exerted if the spring stretched 7.0 cm? (interpolated, extrapolated)
3.	What force was exerted if the spring stretched 0.05 m? (<i>Notice the unit here!</i>) (interpolated, extrapolated)
4.	How far will the spring stretch if 2.5 N of force is applied?(interpolated, extrapolated)