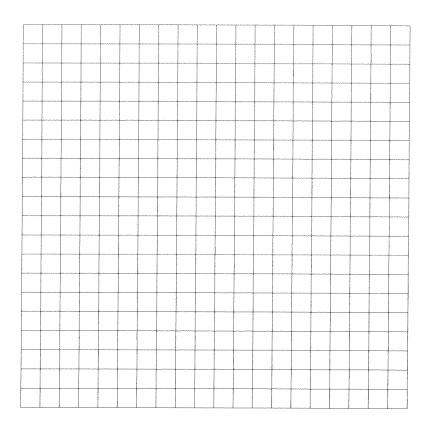
Name	Date		
	r Period		
	Hooke's Law Lab		
Object	tive: to determine the spring constant of a spring.		
Mater	als: spring, stand, mass holder, masses		
Procee	lure:		
1)	Hang spring and mass holder on stand. Adjust the scale so that the needle measures 0.0cm if necessary.		
2)	Place some mass on the mass holder. Record the spring elongation in your data table		
3)	3) Repeat Step 2 with a different amount of mass seven times.		
4)	Do NOT place more than 150 g on the mass holder. This can damage the spring.		

Data:

Mass (kg)	Fg – Weight (N)	Spring Elongation (m)

Graph:

Plot a graph of force versus spring elongation. Draw a line of best fit. Make sure to title the graph, label the axes properly with units, and provide an appropriate scale for each axis.



Conclusion:

What is the spring constant of the spring? Justify your answer based on your graph. Show any calculations you used.