**GRAPHING DATA LAB**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| MASS (g) | ELONGATION(cm) |
| 0 |  |
| 50 |  |
| 100 |  |
| 150 |  |
| 200 |  |
| 250 |  |
| 300 |  |
| 350 |  |

USE THE RULES FOR GRAPHING DATA.

1. Title your graph
2. Label your axes
3. Place units in parentheses
4. Find or create a linear scale to fit the range of data
5. Plot your points
6. Draw the line of the best fit
7. Calculate your slope
8. Identify the independent variable
9. Identify the dependent variable
10. Write the formula of the line of the best fit
11. Identify the relationship shown by your graph
12. Interpolate the elongation of the spring when mass is

125g

275g

25g

1. Extrapolate the elongation of the spring when mass is

400g

450g