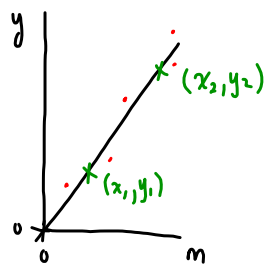


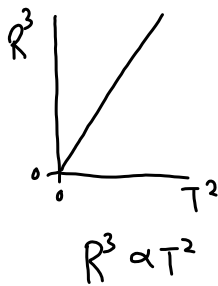
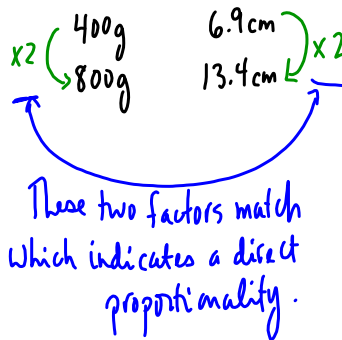
Hook's Law Lab



- linear graph
- the vertical depression is directly proportional to the mass attached OR the vertical depression varies directly with the mass attached.

x Whenever you have a linear graph with a y-intercept of zero, the variable plotted on the vertical axis is directly proportional to the variable plotted on the horizontal axis

$y \propto m$
↑ "proportional to"



2. Prediction for 850g (using the graph)

Interpolation is making a prediction within the range of data collected during an experiment. It can be done graphically or using an equation.

Extrapolation is making a prediction outside the range of data collected during an experiment. It can also be done graphically or using an equation. Extrapolated predictions are not reliable as the trend of the data may change.

3. $m = \frac{\Delta y}{\Delta x}$
 $m = \frac{y_2 - y_1}{x_2 - x_1}$

$y = mx + b$
↑ slope for b