Science with Mr. Grimes

Physical Science

‘Doing Science’ Notes

Use scientific standard unit of measure

System International (Fr) or International System of Units (Eng), known as SI units.

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| --- | --- | --- |
| Variable | Base SI Unit | Others we may use in physical science class |
| Length | Meter (m) |  |
| Volume | Liter (L) |  |
| Mass | Gram (g) |  |
| Time | Second (s) | Minute (min), Hour (hr) |
| Angle | Radian | We will use degree, or theta ( Θ ) |
| Temperature | Kelvins (K) | We will use degree Celsius ( °C ) |

Variables

Change only 1 variable at a time in an experiment.

Independent Variable: The variable that is changed by the experimenter.

Dependent Variable: The variable that may change as a result of changing the IV.

Minimum Data: 5 data pairs (MORE IS BETTER)

Use the minimum and maximum that is possible, and then a minimum of 3 other data pairs evenly spaced between the min and max I.V. values.

|  |  |
| --- | --- |
| Data Table Label | |
| I.V. (x-axis) | D.V. (y-axis) |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Graphing: Make sure we can see all data points. Connect the points (draw a line) unless scatterplot. If there are no negative data points, set the origin of the graph at (0,0)