

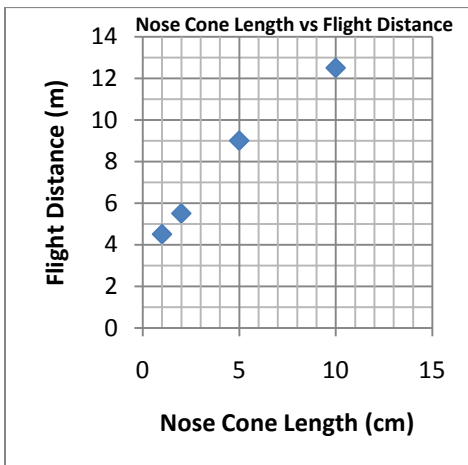
TAILS Graph Creation

In other words, what every graph must have.

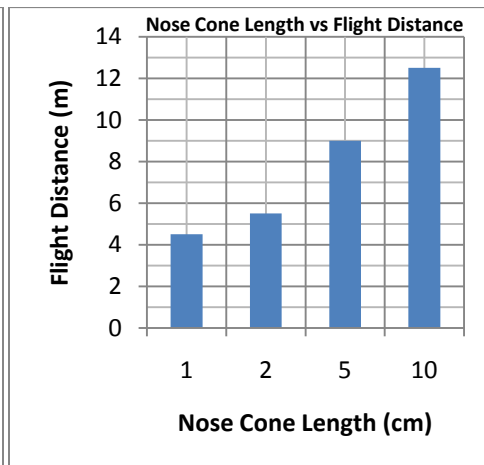
T	Title	<u>Title:</u> Must be clear and descriptive.	2 pts
A	Axes	<u>Axes:</u> Drawn, neat and straight.	2pts
I	Intervals	<u>Intervals:</u> Each interval increases by an equal amount, and is clearly numbered.	2pts
L	Labels	<u>Labels:</u> Correctly indicate what is graphed and (in parentheses) indicate the units.	2pts
S	Scale	<u>X/Y Scales:</u> Pick the intervals so that most of the graph paper is used to plot the data.	2pts

First thing to ask yourself: What type of graph is it? Bar, line, scatterplot?

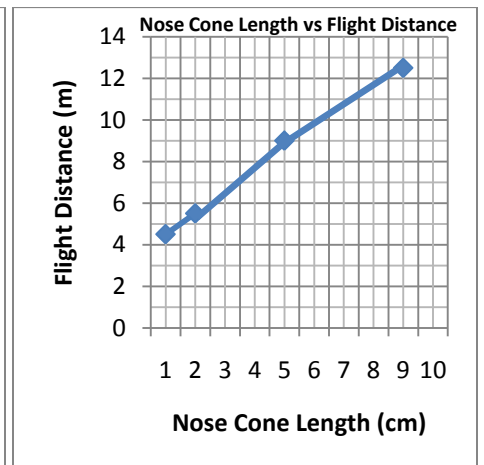
Scatterplot



Bar



Line



TAILS Method of Interpreting Graphs

How to Interpret Math (in other words, steps to reading ANY graph):

1. **Read the title.**
2. **Identify the Independent (x-axis) and Dependent (y-axis) variables.**
3. **Determine the units of the x and y-axis.**
4. **Determine the size of each division on the x and y-axis.**
5. **Determine what the slope tells us (if anything).**

i. To do this write the following equation:

$$m_{(slope)} = \frac{y - axis\ variable}{x - axis\ variable}$$

ii. Ask yourself: Does this tell you anything? It may not...

6. **Look at the flat parts of the graph.**
 - i. What do these parts of the graph tell you?
7. **Look at the parts of the graph that reverse slope.**
 - i. What do these parts of the graph tell you?
8. **Look at the parts of the graph that cross the x-axis.**
 - i. What do these parts of the graph tell you?