

Tips for Creating Line Graphs

1. Place your data in a data table.
2. Label the horizontal axis (axis from left to right) with the name of the Independent Variable (manipulated variable). Label the vertical axis (axis from top to bottom) with the name of the dependent variable (responding variable). Include the *units of measure* (cm, seconds, grams, Celsius, etc).
3. Create a scale on each axis by marking off *equally-spaced numbers* along the axis. Begin with zero or a number slightly less than the smallest number to be graphed. Be sure that each scale covers the entire range of data collected for that variable (the highest possible number you will graph). Label the units on each scale.
4. Plot each point where the variables intersect. You can do this by following an imaginary line up from the measurement on the x-axis. Then follow a second imaginary line across from the corresponding measurement on the y-axis. Place a dot where the two lines intersect.
5. Consider whether you will plot from point to point or make a best fit graph. If you plot from point to point, each segment connecting two adjacent points should be straight. If you make a best fit graph, the connecting line should be smooth.
6. Give your graph a title that identifies the Independent and Dependent Variables, you can change your testable question into a statement and use it because it has both variables in it.

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