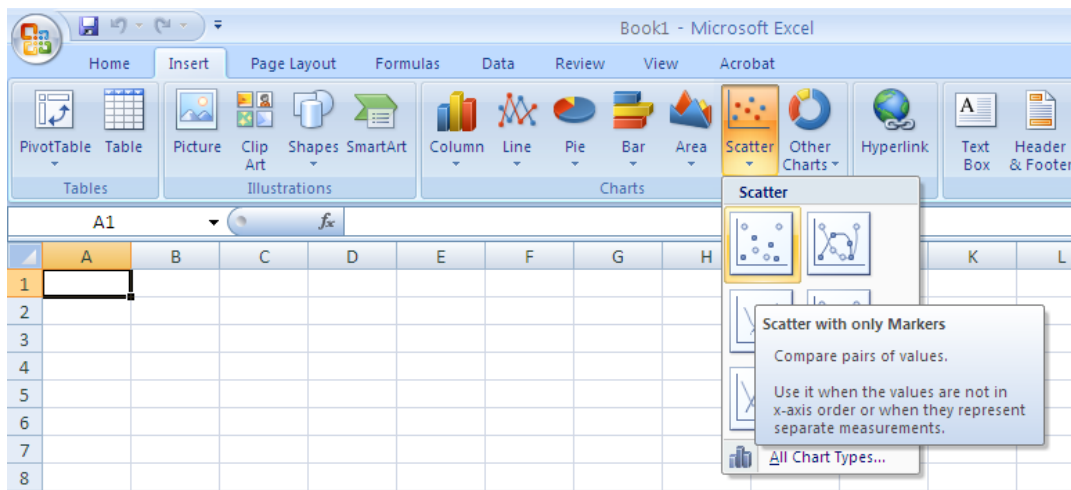


## How to Make a Line Graph and Add a Trendline on Excel 2007 or 2010

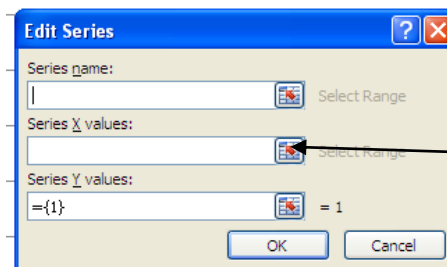
1. Enter your data in to an Excel spreadsheet. *Make sure that the data is only numerical.* Headings with units can be put at the top of each data column. For example:

Mass (g)	Volume (ml)	Mass (g)	Volume (ml)
9.100	10	27.000	10
18.200	20	54.000	20
27.300	30	81.000	30
36.400	40	108.000	40
45.500	50	135.000	50
54.600	60	162.000	60
63.700	70	189.000	70
72.800	80	216.000	80
81.900	90	243.000	90
91.000	100	270.000	100
100.100	110	297.000	110
109.200	120	324.000	120
118.300	130	351.000	130

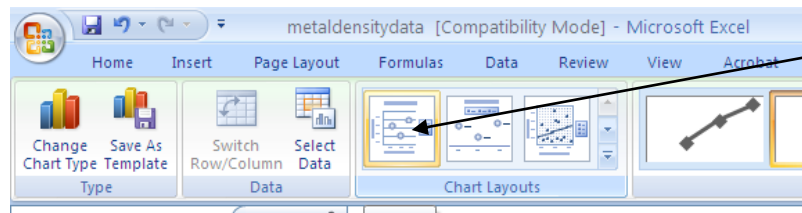
2. When you are ready to graph, go to the “Insert” menu and then “Scatter.” Select the scatter plot that only has points (no line.)



3. After the blank box appears click on the icon for “Select Data” at the top of the page, then click on the button for “Add”.
4. Click on the box to the right of the line that says “Series X Values” (as shown below) and then highlight your data values that will be on the x-axis of the graph (the volumes.) Make sure to only highlight the boxes with numbers, not text. Hit the Enter key when done.



5. Repeat with Y values (the masses,) then type a name for the data series (such as “Gold Metal”) in the box entitled “Series Name.” When you are done, hit the “Okay” button.
6. Click on the “Add” button again to add your second set of data to the same graph. Repeat steps 5 and 6 with this set of data. When you are done adding data series, click “Okay”.
7. And add a title and axes labels to the graph by choosing a chart layout by clicking on the leftmost “Chart Layouts” icon at the top of the screen (as shown below.) Click on the graph to type your labels.



8. To add a best-fit line and get the slope of that line, right-click on one of the data points. Select “Add Trendline.”
9. Check the box toward the bottom that says “Display equation on chart” then hit “Close”.
10. The location of the equation can be changed by moving it with the mouse. The equation is in the form  $y = mx + b$ .
11. Lastly, make the chart have its own full page by clicking on the “Move Chart” icon at the top of the screen, then selecting “As new sheet” and hitting “Okay”.



12. Print your graph by clicking on the round icon at the top left of the screen (as shown below), then going to the “Print” tab and selecting “Print” and the correct printer.

