

***KaleidaGraph* INSTRUCTIONS**

KaleidaGraph is a data analysis and graphing software package. There are several available windows that can be opened on the KaleidaGraph desktop. These include the data spreadsheet, the analysis window in which formulas for column calculations can be entered, and the graph window. The data display for KaleidaGraph is a spreadsheet format.

The following instructions go through some of the basics you will need to use KaleidaGraph. There will also be new user hints that appear on screen.

1. **To Start:** Click on the *KaleidaGraph* icon.
2. **To Enter Data:** Enter data as you would in any spreadsheet application. X-values go in the left most column and Y-value data sets in the columns to the right ***or***

A new data sheet can be started by choosing “file”, “new” from the menu bar. ***or***

if your data is on disk from the “File” menu select “Import”, “text.” Your data file must have a “.txt” extension to be imported into KaleidaGraph. You can change the filename by using Windows’ “Explorer” application.

Data sets entered side by side in the same sheet may be graphed on the same graph.

3. **To Analyze Data:** Click on the appropriate menu item in the “Formula Entry” box. This can be used to do repetitive calculations as with a spreadsheet. Several formulas are built in, and you can use other equations to analyze or transform your data by typing them into the “Formula Entry” dialogue box. The format of all formulas is to use “cx” (where x is an integer) to refer to the xth column. Thus if you want to subtract the numbers in column 0 from the numbers in column 1 and put the results in column 2 the formula would be “c2=c0-c1”.
4. **To Graph the Data:** Click on the “Gallery” menu item. Choose “Linear” and then “Scatter.” Click the button under “X” by the column you wish to be your X-values and the button under “Y” by all the columns you wish to be plotted as Y-values. You can also enter titles for the X- and Y-axis at this point.
5. **To fit the data** with a linear regression: Click on the “Curve Fit” menu item. Choose “linear”. In the dialogue box that appears check the box next to the data on which you wish to perform the linear regression. Click “OK”. The best fit line should appear on your graph. To view the equation of the line, click on the “Plot” menu and then “Display equation.” The equation should be displayed on the graph.
6. **To change the title and axis titles:** Simply double click the item you want to change. A dialogue box appears in which you can type the new title. When you are

satisfied, click “OK”. Superscripts and subscripts can be included in your titles by choosing “style” in the top menu bar of the “Edit string” window.

7. **To Save a Project:** Select Save or Save As from the File Menu. The graph and the data are saved as separate files. Whichever window is the active one will determine what you are saving. Be careful to save both your data and your graph in case you want to make changes in the future.
8. **To Print:** Select Print from the File menu. Again, the data OR the graph can be printed. The active window determines which is sent to the printer.