TI-83 or TI-83 Plus

To make a graph of data points on your calculator:

2nd STAT PLOT
Select 1
Put cursor on ON and press enter
Select a scatter plot
X list L1
Y list L2
Select the type of mark that you want for your data points
2nd QUIT

To enter your data points:

STAT
Select edit
Enter your values

To set your window:

ZOOM
Select ZOOMSTAT

To have calculator write the equation of the best fitting straight line:

STAT
Right arrow to select CALC
Select LinReg(ax+b)
After LinReg(ax+b) on the home screen, type 2nd L1 , 2nd L2 ,
VARS
Right arrow to Y-VARS
Select Function
Select Y1
Now your screen should look like the one below:

LinReg(ax+b) L1, L2, Y1

When you type enter, the calculator will write your equation and enter/store it in Y1.

To compare values from your model to actual values from your data:

2nd TBLSET
TblStart = the first x-value from your data points
$\Delta Tbl =$ how much you would like for your x-values to increase/decrease by
2nd TABLE

Note:

When you are not using your STATPLOT functions, they should all be turned off.

Press 2nd STATPLOT
Select item 4
Enter
Enter