

## Plotting with the Graphing Calculator

### Procedure:

1. Enter STAT
2. Enter 1 to Edit
3. Arrow over to L1
4. Arrow up so L1 is highlighted
5. Enter CLEAR
6. Arrow down
7. Arrow over and clear all lists using the same steps as #3-6
8. Arrow back over to L1 once all lists are cleared
9. Enter the x-coordinates from the table on your other sheet into L1
10. Arrow over to L2
11. Enter the y-coordinates from the table into L2
12. Enter 2<sup>nd</sup> Y= to select a scatter plot
13. Enter 1 for Plot1
14. Highlight On by pushing ENTER when the cursor is over On
15. Arrow down to choose a the Type of graph
16. Highlight the first type of graph in the first row
17. For Xlist: Be sure L1 is listed (If not, arrow down until it is highlighted, then push 2<sup>nd</sup> 1 to select L1)
18. For Ylist: Be sure L2 is listed
19. For Mark: Be sure to highlight the first option
20. Push WINDOW to set the axis of the plot
21. Set as follows:  
Xmin = 1998  
Xmax = 2004  
Xscl = 1  
Ymin = 0  
Ymax = 100  
Yscl = 10  
Xres = 1
22. Push GRAPH to see your scatter plot
23. Show your graph to your teacher
24. Subtract 1998 from each year in your table. These are your new x-values in the new table (on your other worksheet)
25. Enter the y-coordinates into the table by taking the natural logarithm of the number of BMD scanners given in the first table.
26. Enter your new x-values into L1
27. Enter your new y-values into L2
28. Follow steps #12-20 as before
29. Set your new window as follows:  
Xmin = 0  
Xmax = 6  
Xscl = 1  
Ymin = 0  
Ymax = 5  
Yscl = 1  
Xres = 1
30. Follow the instructions on letter *b* on the other worksheet

*Please clear your lists following the procedures in steps #1-7 when you are finished with the activity.*