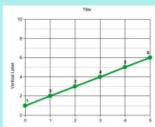
Graphing

EQ:

How is data displayed and interrupted?

In Biology, we will focus on the use of 2 Types of Graphs:

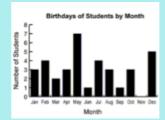
Used to compare types of numbers and changes over time

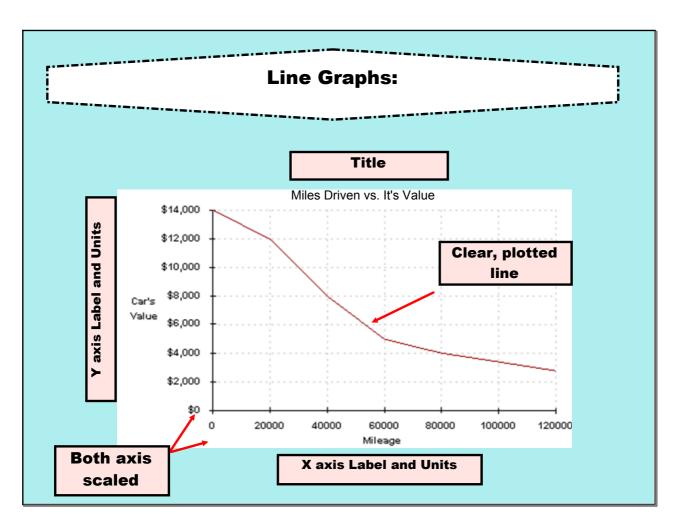


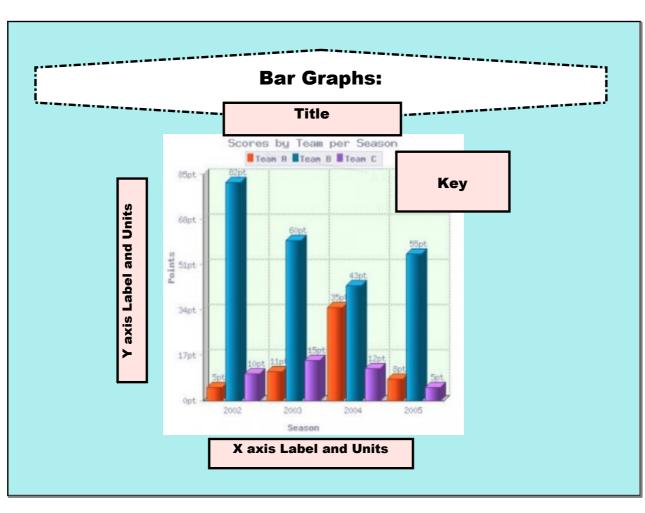


Used when comparing data or data that is discontinuous

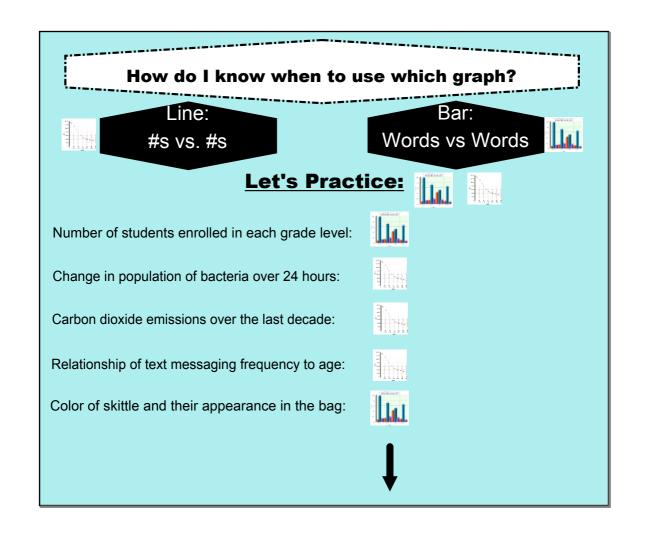


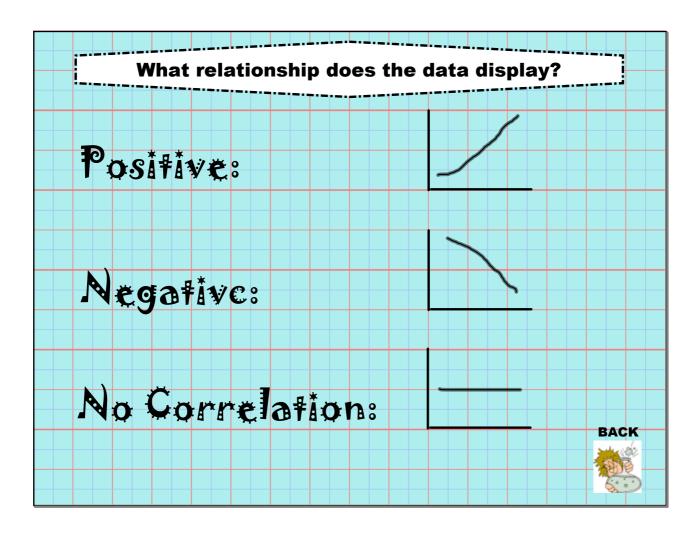






What the parts mean? The title should be Is labeled with the IV, or **DESCRIPTIVE** and the variable being X AXIS TITLE include both variables in manipulated, along with the experiment its units. Is labeled with the DV, or Is necessary for any graph which contains the variable being multiple data sets (lines or KEY measured, along with its Y AXIS units. graphs)





Helpful Hints

Make the graph big. More space=more clarity!

Scaling should be done first. Start with 0 (or use a break) and be sure to increase by equal amounts at each line.

Assume the reader knows nothing...be informative

"Y" be <u>Depedendent</u> when you can be "X"tremely <u>Independent</u>

Use the data to determine which type of graph to create, then graph it.

At O'Connor High School the Administration were wondering which sport season was most popular among boys and girls. In the fall there were 95 boys and 40 girls. In the winter there were 35 boys and 75 girls. In the spring there were 75 boys and 65 girls.

Sample 1

The ADOT wants to conduct research to see if there is a relationship between driving age and fatal accidents each year.

The following data was collected:

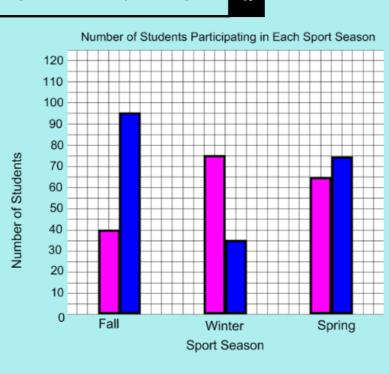
Driver's Age	Fatal Accidents
16	41
25	23
41	17
55	12

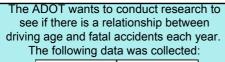
Sample

At O'Connor High School the Administration were wondering which sport season was most popular among boys and girls. In the fall there were 95 boys and 40 girls. In the winter there were 35 boys and 75 girls. In the spring there were 75 boys and 65 girls.

Sample 1

Key:
Girls
Boys





Driver's Age	Fatal Accidents
16	41
25	23
41	17
55	12



