**Graph and Chart Notes**

**What is the purpose of a chart?**

* Used in business to communicate and clarify spreadsheet information.
* Graph is a pictorial representation of data. Includes plot area, gridlines, and values.
* A graph is used in a chart. A chart is an enhancement of a graph that includes labels, legend information, titles, and color.
* A chart is easy to read.

**What is the difference between a graph and a chart?**

**Graph**

* Y axis: Left vertical side of graph
  + - * (Numerical Value)
* X axis: Bottom horizontal side of graph
  + - * (Category Information)
* Data Markers: used to indicated data values
* Data series: collection of related values such as one row or column from spreadsheet
* Gridline: horizontal or vertical line that extends across the plot area of the graph
* Plot Area: background part of the graph. (The area inside the X and Y axes)

**Chart**

* Legend: explains the symbols, colors, or patterns used to differentiate the data.
* Data Label: single value or text explanation to identify data in a series.
* Chart Title: main heading, which describes the purpose and content.
* The x-axis title: horizontal data
* The y axis title: vertical data

**Which charts are used commonly in a business and why?**

* **Column Chart**

Comparisons and generalizations about groups of data

* **Line Chart**

Shows trends or changes in data over time

* **XY Scatter Chart**

Shows correlation of two or more data sets

* **Pie Chart**

Shows contribution of one series of data to the whole

* **Stacked Bar Chart**

Shows the sum of more than one value and compares the individual to the whole

* **Exploded Pie Chart**

Individual components are enhanced