GRAPHING CHECKLIST

Graphing is an important skill to master so that you can represent results in a clear and easy to understand format. Your choice of graph type is dependent upon the data that you are trying to represent.

Line Graphs / Scatter Plots - should be used to compare how two variables affect one another. These are great when showing changes over time.

Bar Graphs - should be used when showing a change in amounts of a specific variable. These are great when showing comparisons.

Pie Charts - should be used when comparing parts to a total. These are great when showing percentages.

Graphing Checklist (ICATS) - these should be present in all bar and line graphs ☐ I - Intervals ☐ Spacing is consistent (data should not be squished) ☐ Intervals and scale are even and labeled along each axis ☐ C - Color Colors have meaning - A key is included to show this meaning \Box A - Axis ☐ The x- and y-axis are both labeled correctly AND include units \Box The Independent Variable is on the x-axis ☐ The Dependent Variable is on the y-axis ☐ T - Title ☐ The title is clearly placed at the top of the graph ☐ The title is descriptive and uses both variables □ S - Spacing / Size ☐ The graph uses most of the paper Line Graph / Scatter Plot Only ☐ The line should begin at the first data point. □ Data should be written so that the LINES of the graph paper represent specific intervals Bar Graph Only ☐ Bars should be between the lines along the x-axis ☐ Bars should be neat and organized Pie Charts Only ☐ Pie segments should be accurately divided ☐ Should calculate percentages ahead of time and divide the chart accordingly

■ Each pie segment should include the correct label and percentage