Science Graphing Rubric

| Area | Exceeds the Standard | Meets the Standard | Progressing Toward the Standard |
|-------------------------|--|---|--|
| Type, scale, range | Uses proper type of graph that best depicts data, Range allows for analytical interpretation, Scale allows the graph to cover at least ¾ of the paper. | Uses proper type of graph that best depicts data, Range allows the data to fit comfortably on the graph, Scale allows the graph to cover at least ½ of the paper. | Uses improper type of graph that best depicts data. Range is simple starting with zero, Scale allows the graphe to cover less than half of the paper. |
| X axis | Same as Meets Standards | Independent variable labeled with units of measure neatly organized along horizontal axis without crowding numbers and numbers clearly associated with line on graph. | Independent variable labeled with units of measure that are crowded and difficult to read, or May have wrong variable plotted or missing units of measure or unclear association with numbers and graph lines |
| Y axis | Same as Meets Standards | Dependent variable labeled with units of measure neatly organized along vertical axis without crowding numbers and numbers clearly associated with line on graph. | Dependent variable labeled with units of measure that are crowded and difficult to read, or May have wrong variable plotted or missing units of measure or unclear association with numbers and graph lines |
| Mechanics | Uses ruler, connects lines, use of color makes graph easier to read, uses Excel or other digital means to generate graph, Data fits on graph with no additional columns or rows necessary | Uses ruler, connects lines, use of color makes graph easier to read, data fits on graph with no additional columns or rows necessary | May connect the lines wrong,uses limited or no color. |
| Title, Key/Legend | Uses a legend/key when needed, title cites independent and dependent variable. | Uses a legend/key when needed, title attempts to cite independent and dependent variable. | Legend/key missing or title does not cite independent and dependent variable |
| Descriptive Analysis | Describes patterns seen in graphed data using numerical data to support claims and defines any relationships between the independent and dependent variable, provides a prediction of ungraphed data trends based on the graphed data. | Describes patterns seen in graphed data using numerical data to support claims and defines any relationships between the independent and dependent variable. | Describes simple patterns seen in graphed data and predictions or relationships between independent and dependent variables are not present. |

Resource:

 $\underline{\text{http://nces.ed.gov/nceskids/createagraph/default.aspx?ID=f3b73716744343faa1e738ee80eaaf8c}}$