

Name _____ Period _____

Assignment 1J – Graphing in Science

30 Points

Complete the following worksheet showing all work. No Work = No Credit!

1. Explain the difference between a direct and an indirect relationship between variables
2. What is the difference between the independent (x-axis) and dependent (y-axis) variables in a data set?

3. Calculate the slope for the following sets of data from an experiment data's graph

A. Point 1: (3.5, 5.6)

B. Point 1: (5.0, 2.3)

Point 2: (6.2, 2.9)

Point 2: (10.0, 5.3)

4. Graph the data set below on the graph and calculate the slope of the graph

Volume (mL) [x]	Mass (g) [y]
20.0mL	10.3g
40.0mL	20.2g
60.0mL	30.9g
80.0g	41.3g
100.0g	50.8g

Calculate Slope of Graph

