First and Last Name: _____

Student ID Number: _____

TA: _____

Lab Section: _____

Date Performed: _____

Vernier #: _____

NaOH solution preparation

- Please record the NaOH stock solution concentration as reported on the bottle. Check the ambient (room) temperature T_1 in the lab (look for digital thermometers on the white columns in the middle on each side of the lab) and record it in °C.

NaOH stock solution (solution A) concentration, M	
T_1, °C	

- Calculate the concentrations of your NaOH solutions **B** and **C** by using $C_1V_1=C_2V_2$ formula and the report the values with the correct number of significant figures and proper units.

Dilution 1: preparation of solution B			
V_1 (mL) =	V_{H2O} (mL) =	V_2 (mL) =	C_1 (M) =
Calculation: C_2 =			
Solution B concentration (M):			
Dilution 2: preparation of solution C			
V_1 (mL) =	V_{H2O} (mL) =	V_2 (mL) =	C_1 (M) =

Calculations: C_2 =
Solution C concentration (M):

Rate of Reaction

- Record a corresponding NaOH concentration for each run

Run #	**NaOH concentration**

- What did you observe during the data acquisition? Did all the reactions have similar reaction rate? If not, did you observe any trend related to changes in NaOH concentration?
