## **Acid Neutralization Lab**

Purpose:

• To find the molarity of a Hydrochloric Acid Solution by using the properties of neutralization.

## Procedures:

- Using the plastic container, water, and the baking soda. Make a 1 molar solution of NaHCO3.
- Mix in the universal indicator into the HCl acid solution.
- Record your observations
- Using the Pipette, extract small amounts of the NaHCO3 solution and transfer it to the HCl solution.
- Record observations and amount of NaHCO3 solution that was added to the acid solution.
- Repeat until Acid Solution is neutralized.

## **Conclusion and Analysis**

• For the analysis, calculate the molarity of the HCl acid using the following formula.

 $\frac{moles \ H^+}{1 \ mole_A} (M_A)(V_A) = \frac{moles \ OH^-}{1 \ mole_B} (M_B)(V_B)$ 

• Write a conclusion about your findings and what you learned about acids and bases from completing the Lab.