Name:		Section	n:				
Partner's Name:		Date:					
VOLUMETRIC ANALYSIS OF AN ACID SOLUTION DATA SHEET							
Part A: Standardization of NaOH							
Stoichiometric Equation for the Acid-Base Reaction:							
Mass of oxalic acid dihydrate, $H_2C_2O_4 \cdot 2H_2O$ , g							
Number of moles of H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O, mol							
Volume of the volumetric flask, mL							
Concentration of H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O solution, mol·L <sup>-1</sup>							
	Titration 1	Titration 2	Titration 3				
Final burette reading, mL							
Initial burette reading, mL							
Volume of NaOH delivered, mL							
Volume of oxalic acid used, mL							
Moles of oxalic acid used, mol							
Moles of NaOH consumed, mol							
Concentration of NaOH , mol/L							

Average concentration of NaOH,  $mol \cdot L^{-1}$ 

## Part B: Determination of the unknown concentration of an HCI Solution

Stoichiometric Equation for the Acid-Base Reaction:						
	Titration 1	Titration 2	Titration 3	Titration 4 (Congo Rec		
Final burette reading, mL						
Initial burette reading, mL						
Volume of NaOH delivered, mL						
Moles of NaOH used, mol						
Moles of the acid used, mol						
Volume of the acid consumed, mL	·					
Concentration of the acid, mol·L <sup>-1</sup>						
Average concentration of the acid,	, mol·L <sup>-1</sup>					