	Name: Blk:Date:
Chemistry 12 ACID BASE PART II Less ACID-BASE TITRATIO	
Recall from Chemistry 11: A titration is a process in which a measured amount of volume of another solution (one of the solution has a desired EQUIVALENCE POINT is reached (generally	inknown concentration, until a
The EQUIVALENCE POINT is also known as the as it is reached when the mole to mole ration is equiva BALANCED EQUATION!!!	lent to the ration in the
All TITRATION problems have FIVE MAIN PARAMETE a. Known Volume b. Known Concentration c." unknown Volume c." unknown Volume c." unknown Volume	RS: h known 1 concentrations ble: mole ratio between un unknown A Balanced egfn.

	volume of another solution (one of the solution has a unknown concentration) until a desired EQUIVALENCE POINT is reached (generally indicated by a colour change)
	The EQUIVALENCE POINT is also known as the Stoichiometric point as it is reached when the mole to mole ration is equivalent to the ration in the BALANCED EQUATION!!!
	All TITRATION problems have FIVE MAIN PARAMETERS: a. Known Volume b. Known Concentration c." unknown" Volume c." unknown" Volume c." unknown" A Balanced
1.	Example 1. A GENERIC TITRATION PROBLEM: In the reaction between sulphuric acid and sodium hydroxide an equivalence point is reached when 23.10 mL of 0.2055 M NaOH is added to a 25.00 mL portion of H_2SO_4 . What is the $[H_2SO_4]$? $1 + 2 + 2 + 3 + 3 + 4 + 4$
).02	310 K . 0.2055 mol Nath (Inol Husa) (0.02500L) =
9.4	94.10 M H2504 [D.09494 M H2504]

The student would DISCARD the volume from the first titration and take the AVERAGE of the closest TWO values. (21.82 + 21.81) / 2 = 21.815 mL => 21.82 mL

3rd titration = 21.81 mL

Experimental Note: When performing a titration in the lab it must be repeated to check for

SEATWORK/HOMEWORK: Exercises 95-107 (odd numbers) pgs 158-159

accuracy of the results. If the following volumes were collected by a student:

1st titration = 21.55 mL

2nd titration = 21.82 mL

PLO's: P2-P3