TITRATION LAB

Lab Day: Beware! We are using acids & bases and expensive glassware. Use extra caution.

White Book pages 54-55 Black Book pages 62-63

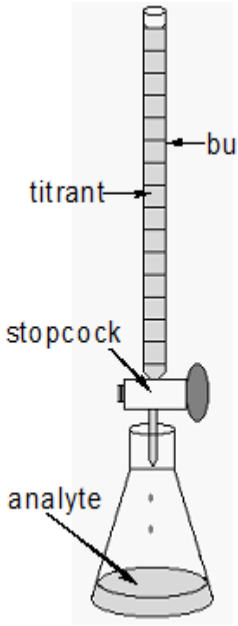

Figure 1: Titration Setup

- Title Every Page Every Time / Signatures Every Page Every Time
- Safety (3 points)
- Lab Objectives (2 points)
- Materials (5 points)
- Lab Set-Up (draw & label setup) (5 points)
- Pre-Lab Questions & Post-Lab Questions (12 points)
- Background Notes (10 points)
  - These notes will be given by teacher. You can leave 1-page blank for these notes.
- Calculations (10 points)
  - We will be working on Calculations together in class. Leave 1-page blank for these calculations.
  - $M_1V_1=M_2V_2$
- Procedure (10 points)
  - https://www.youtube.com/watch?v=5BZ0MPIgeEE
- Results (20 points)

	V_2	V_1	M_1	M_2		
Trial	**Amount of Acid** (initial volume)	**Amount of NaOH Titrated** (look on burette)	**NaOH molarity** (this is given by teacher)	**Acid molarity** (solve using formula $M_1V_1=M_2V_2$)	**Color of Analyte**	**Notes / Observations**
#1	**mL**	**mL**	**M**	**M**		
#2	**mL**	**mL**	**M**	**M**		
#3	**mL**	**mL**	**M**	**M**		
	NaOH molarity mean =					

- Conclusion (10 points)
  - Research using the internet and read the examples listed in the overview about how titrations are used in the real world. Write 5 sentences about how titrations are used in the real world.
- Lab QUIZ (13 points)