

Lab 20G
Marking Scheme and Changes

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Day 1 - Parts I and II

- 1) We are using 100mL volumetric flasks today. But still use the same mass as you calculated earlier. Now this will change your molarity of oxalic acid (make sure you make note of this)
- 2) Also, you should be able to calculate approximately what you are going to need for the equivalence point (remember oxalic acid is diprotic)
- 3) You DO NOT need to get 500mL of NaOH as we will all be using the same solution for the entire lab. You will need approx. 50mL today.
- 4) You must complete parts 1 and 2 today and fill in the sheet at the front of the class with both partners names on it with the correct information

Day 2 – Parts IV and V

Part IV – Monoprotic weak acid – Vinegar

- 1) We will be using 10mL aliquots of vinegar NOT 25mL as stated in your lab book
- 2) Make sure to label your 100mL beakers that will be used for both the NaOH and HCl
- 3) You will need to start with approximately 50mL of NaOH only!! Fill up after you are done, do not take more than 50mL to start
- 4) The pH of vinegar will be 2.4

Part V – HCl titration

- 1) We will be using HCl instead of beverages
- 2) Again, 10mL aliquots will be used
- 3) No more than 30mL of HCl to start with, you won't need more than that
- 4) Remember, if you get your titration to be within 0.1mL, you are done