Exp 1: Scientific Measurments - CHEM 117-506

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Purpose: To become familiar with the proper procedure of taking scientific measurments and working with lab equipment

Procedure:

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DAcquire one of each of the Glowing: 125 ml Erlenmeyer flask, 100 ml beaker, and 1000 ml graduated cylinder

2) Pick one of the pieces of glassware and write down which was chosen

3) Go to a top-loading balance, tare, and neigh the dry glussware. Record all digits of mass.

4) Go to an analytical busine, close the closes, tare, open the doors, then place dry glassmare on it. Close doors and

record all digits of mass.

(5) If benker or graduated cylinder: Fill glassmare about 1/3 full with mater and record volume. It erlenmeyer flask, using a buret, record initial volume of mater in buret, fill flask approximately 1/3 with water and record final volume of water in buret. (Make sure measurements have one more level of significance than is labeled on skissware)

6) Weigh the plassware with water on both top-loading and analytical balances and record respective masses

Dump water into the sink weigh the net glassware on both top-loading and analytical balances and record their respective masses

(8) Repeat steps 2-7 for each remaining piece of glassware

9 Return all glassware where it was found and mipe down the benchtop with a wet paper tonel

Safety: Approved chemical splash gossles must be norn when chemicals and/or glassware are in use anywhere in the lab Waste Disposal: water is dunped in the sink

-Data and Observations Erlenmyer flask dry weight - top-loading: 92.82 g - analytical: 92.84689 Initial volume of water in burch: 12.20 ml Final volume of nater in buret: 50.00 ml Erlenmeyer flusk neight with water -- tap-loading: 142.46 g - analytical: 142,5196 g Wel Erlenneyer flash neight after dumping nater - top-loading: 93.63 g - analytical 193,6548 g Beaker dry weight - top-loading: 67,59 9 - analytical: 67.58179 Volume of water in beaker: 40,0 ml Beaker neight with nater - top-loading: 104.299 - analytical: 104.2629 g Wel beaker wight after dumping mater: - top-loading: 67,79 g - analytical: 67.8134 9 Graduated cylinder dry neight: - top-loading: 94.89 g - analytical: 94,9264 g Volume of water in graduated cylinder: 200ml 20.00 ml Graduated cylinder neight with nester: - top-loading: 114.01 g - analytical: 113,9890 g Graduated Winder weight after Sumpins verter. - top-loading: 45.65 g - analytical: 95,6580 q