

INTRODUCTION AND MASS MEASUREMENT

Name: _____

Date: _____

Station #: _____

Objective:

Procedure: As in CHEM 1105 lab manual, pages _____.

Observations:

Part 1A: "Weighing in" by difference

Mass of empty beaker	
Mass of beaker and sample	
Mass of sample	

Part 1B: "Weighing out" by difference

Mass of weigh boat and sample	
Mass of empty weigh boat	
Mass of sample	

Part 2: Sodium bicarbonate (NaHCO_3) weighing exercise

Mass of full vial	
Mass of "1/3 empty" vial	
Mass of "2/3 empty" vial	
Mass of "empty" vial	

	Flask #1	Flask #2	Flask #3
Mass of NaHCO_3 in flask			

Calculations:

Show **one** sample calculation for each of Parts 1A, 1B and 2.

Questions

- 1) Suppose you had to dispense 100.0 grams of calcium hypochlorite into a swimming pool. Which method, weighing in or weighing out, would you use? Explain what data you would collect and how you would determine the mass of calcium hypochlorite added to the swimming pool.

- 2) In which method, weighing in or weighing out, is spillage in transfer not a source of error? Explain your choice.
- 3) In which method, weighing in or weighing out, must the sample-receiving container be dry? Explain your choice.