

1st Mole Ratio Lab
Baking Soda and Hydrochloric Acid

Purpose: _____

Materials:

- baking soda--sodium hydrogen carbonate _____
- hydrochloric acid _____
- balance
- beaker

Procedure:

- write your names on the beaker with a wax pencil
- mass the beaker
- mass 2.00 g of BS in the beaker
- slowly add hydrochloric acid until the reaction is "complete" i.e. make the BS disappear using the minimum volume of acid possible
- place beaker on ledge and do not disturb
- re-mass when dry

Qualitative and Quantitative Observations:

BCE: _____

Calculations:

Moles of BS that reacted:

Moles of Product that formed:

Ratio of Moles of BS to Moles of Product:

Conclusion: _____

1) What was the product? _____

2) What was the accepted value for the mole ratio from the BCE? _____

3) Calculate the percent error: