Experiment: Decomposition of Baking Soda

- **Objective: Calculate the % by mass YIELD of the solid product that is left after the decomposition of sodium bicarbonate.**
- **Each student will research what the products are from this decomposition.**
- **Each student will figure out a way to determine this in the lab (HINT: You will use crucibles and application of HEAT!).**
- **Each student will write up a lab report separately but work collaboratively in a group in the lab.**
- **HOWEVER, on the day the lab is due, the lab partners will select ONE LAB REPORT to be graded (the other partners lab reports will be stapled behind the one that the lab group selects to be graded). All members of the lab group get the same score. Any student with incomplete sections on final lab report will receive a 0 grade; thus, in order to be considered for grading, all sections must be complete.**
- **All lab work is to be word-processed.**
- **FINAL LAB REPORT WILL INCLUDE:**
  - ***Title:* Decomposition of Sodium Bicarbonate**
  - ***Objective:* Calculate the % by mass YIELD of the solid product that is left after the decomposition of sodium bicarbonate. Write the balanced chemical equation in this section.**
  - ***Materials:* Bulleted list the equipment used.**
  - ***Methods:* Numbered list of procedure used in the experiment. USE PAST TENSE.**
  - ***Data:* Numbers collected in experiment**
  - ***Calculations:* Show the % by mass YIELD of the solid product left over after the decomposition is complete.**
  - ***Summary:* Using your calculation, write a single statement summarizing the results of this experiment.**
- **Here is the list of items that you will TURN IN <u>prior</u> to going into the lab. Make one copy for TEACHER and make one copy for YOU:**
  - **Title (see above)**
  - **Objective (state the objective)**
  - **Materials (use bullets)**
  - **Procedure (number your list of steps) – You will then re-write this for your lab report and make it into PAST tense. This becomes the METHOD section.**
  - **Data table (where you will collect your data)**