Before beginning your experiment this week, ask your TA to sign and approve the amount of chemicals that will be used experimentally.

- 3. Perform the reaction of Na₂CO₃(s) with HCl and determine from the measured pressure how much CO₂ gas was produced experimentally.
 - Inspect glassware for cracks before start.
 - Assemble equipments. (Hold stopper and flask tightly to avoid gas leakage.)
 - o Refer to Appendix E of the lab manual for information about collecting pressure data.
 - Should finish 3 trials for this reaction.
 - o Do not allow any liquids to enter the opening of the pressure sensor.
 - O Determine the experimental gas pressure of CO₂ produce from the reaction of Na₂CO₃(s) with HCI.
 - Calculate the theoretical yield of gas and the percent yield for each trial.
- 4. Perform the reaction of CaCO₃(s) with HCl and determine from the measured pressure how much CO₂ gas was produced experimentally.
 - Should finish 3 trials for this reaction.
 - o Do not allow any liquids to enter the opening of the pressure sensor.
 - O Determine the experimental gas pressure of CO₂ produce from the reaction of CaCO₃(s) with HCI.
 - Calculate the theoretical yield of gas, percent yield, and percent error for each trial.
- 5. After the experiment:
 - Solutions should go into the liquid waste bottle.
 - Turn in the copies of notes.
 - Calculate the average percent yield for each solid.