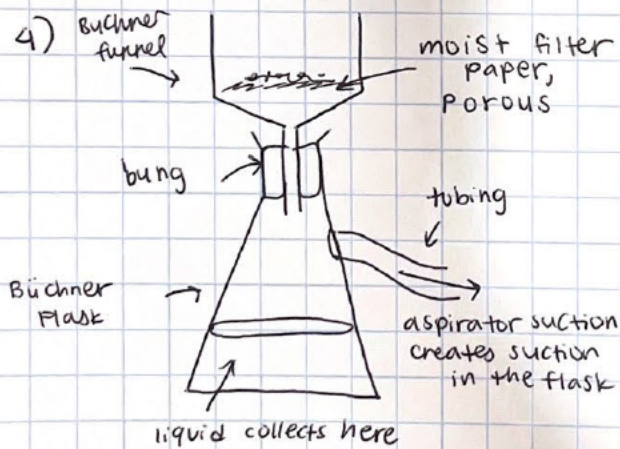
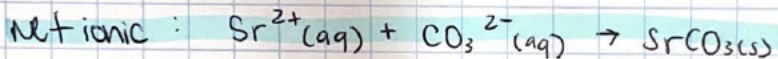
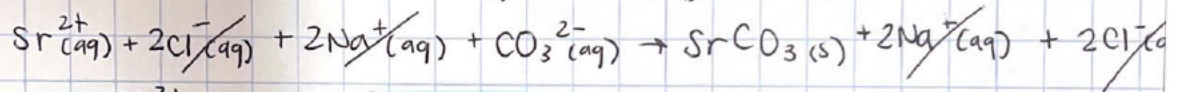
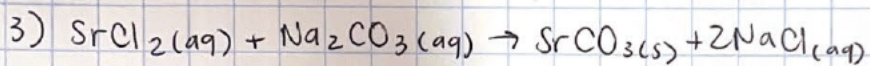
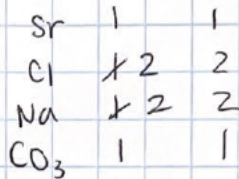
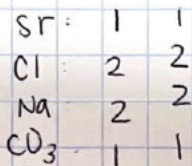
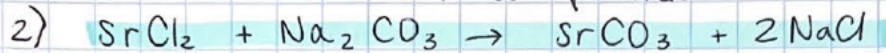


Experiment #4, Limiting reagent Lab, 01/17/23

lab bench #3

Pre-lab questions:

1) A double displacement/replacement reaction is when two elements are swapped and exchanged in two ionic compounds to make two new ionic compounds.



The larger particles of solid can't fit in the tiny holes in the paper so they stay there

↓
 better than core because it collects the precipitate in a surface versus having gaps. \neq Vacuum works more efficiently.

5) Video Notes:

- Set the paper as close to the center of the Büchner funnel.
- Take time adding the water steadily, patiently.
- Use the stir rod to guide precipitate to the center of the filter.
- slowly, keep precipitate in center. swirl mixture and continue.
- Use water to get residue off walls of the beaker & rinse & continue.
- Gently break suction.

Materials

- * 0.15M SrCl₂
- * 0.25M Na₂CO₃
- 2 150 mL beakers
- 1 50mL beaker

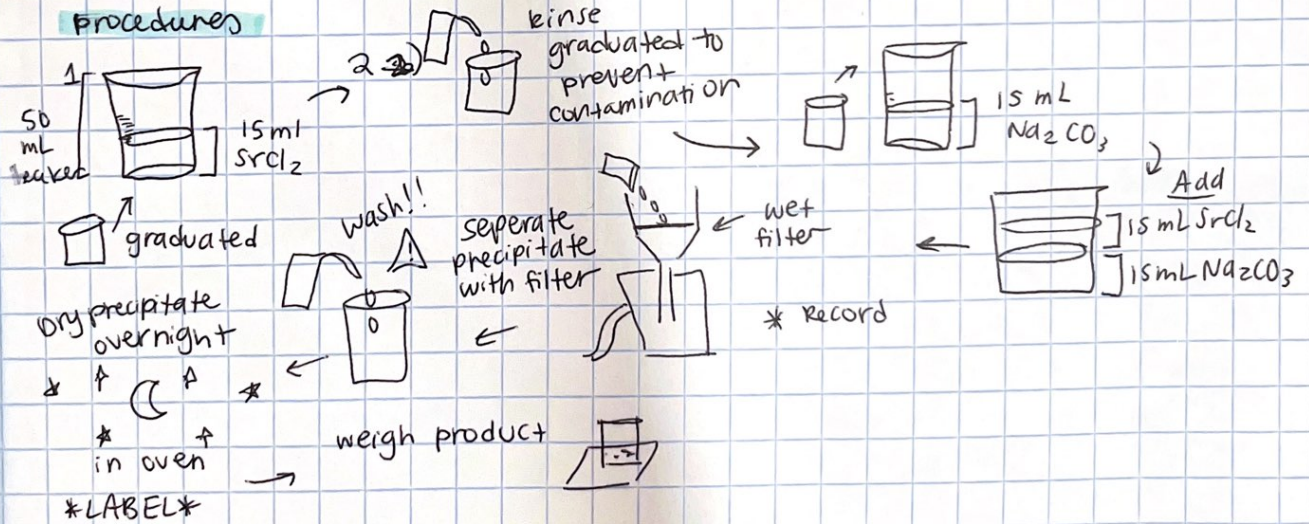
- 2 pipettes
- graduated cylinder
- wash bottle w/ distilled H₂O
- rubber collar

- Buchner funnel
- filter paper, - filter flask
- rubber tubing
- aspirator on sink faucet
- weigh boat

Reagent table

0.15M Name	Formula	g/mol	phys/chem props	First aid Measure	Fire Measure	Accident
Strontium Chloride	SrCl ₂ + 6H₂O + 6H ₂ O, H ₂ O	284.64	colorless, odorless liquid	Inhaled, remove to breathe. Rinse eyes/skin with water. Rinse mouth	Nonflammable, noncombustible, Fire extinguisher	ventilate area, use sand to absorb
0.25M Sodium carbonate	Na ₂ CO ₃ H ₂ O	125.99	Colorless, odorless liquid	Breathe through, rinse eyes, skin, and mouth. call poison center	Nonflammable, noncombustible, Fire extinguisher	ventilate, use sand to absorb & dispose

Procedures



Data Table

Mass of dry Filter paper + weigh boat	Mass of empty beaker	Mass of filter paper, weigh boat, and precipitate after drying in oven	Mass of beaker and dried filtrate boiling	Mass of just dried precipitate	Mass of just dried filtrate after boiling

Observations: