Inquiry/driving Questions:

· Is the total mass the same before and after a chemical reaction?

Predictions/hypothesis:

• I think mass will be conserved in a chemical reaction because in previous labs there was no obvious mass change after a chemical reaction

· [·] .

Experimental design:

- · Weigh the reactants and there containers
- Mix the solution to make them react
- -lower the test tube of one solution into the flask without letting them react -Seal the flask
- -Turn the sealed flask over to mix the solutions and start the reaction

• Materials:

Flask of calcium carbonate Test tube of sodium chloride Scale

Observations:

Mass of reactants: Calcium solution- 6.6 Sodium cabornate solution 128 Total mass= 134.6 Mass after chemical reaction= 135.4

How do you know that a chemical reaction took place: Because the reactants changed colour to milking white and created a foam

Conclusion: (confirm or deny your predictions with supporting evidence, explain possible errors, ask more questions)

My conclusion is that the total mass did change after the chemical reaction by .8 but that could have been for multiple reasons. We could have not measured exactly the first time or the condensation could have made the weight of the glass heavier

3. The product of this chemical reaction are calcium carbonate and sodium chloride. Write a word for this equation

CaCl2 + Na2Co3

4. I think the substance might have been a skittle bit of H_2O because it wouldn't take part in the chemical reaction

5. I think I could see the sodium chloride because that's what turned it white and made the foam