Prelab Calculations: *show all work‼‼*

**Write your balanced equation:**

**You will do the lab starting with 0.018 mol of CaCl2**

1. How many grams of CaCl2 will you start with?

*Pathway:*

*Dimensional Analysis:*

1. If you start with 0.018 mol of CaCl2, how many moles of Na2CO3 do you need?

*Pathway:*

*Dimensional Analysis:*

1. If you start with 0.018 mol of CaCl2, how many grams of Na2CO3 do you need?

*Pathway:*

*Dimensional Analysis:*

1. If you start with 0.018 moles of CaCl2 how many moles of CaCO3 should you make?

*Pathway:*

*Dimensional Analysis:*

1. If you start with 0.018 mol of CaCl2, how many grams of CaCO3 should you make?

*Pathway:*

*Dimensional Analysis:*

1. If you start with 0.018 moles of CaCl2 how many moles of NaCl should you make?

*Pathway:*

*Dimensional Analysis:*

1. If you start with 0.018 moles of CaCl2 how many grams of NaCl should you make?

*Pathway:*

*Dimensional Analysis:*

1. Summarize your calculations in the table below. Use the solubility table in the classroom to fill in the last two rows of the chart.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **CaCl2** | **Na2CO3** | **CaCO3** | **NaCl** |
| **# moles** | 0.018 mol |  |  |  |
| **# grams** |  |  |  |  |
| **Solubility** |  |  |  |  |
| **Phase** |  |  |  |  |

1. Rewrite your balanced equation including the phases.