

## Stoichiometry lab – Synthesizing Chalk

**Prelab:** In this experiment you will study a precipitation reaction between calcium chloride and sodium carbonate. You will collect, dry, and weigh the precipitated product and compare this experimental yield to the theoretical yield you will calculate from the balanced equation. You will isolate the second product from the filtrate, weigh the isolated second product and compare this experimental yield to the theoretical yield you will calculate from the balanced equation.

1) Write the balanced equation for the reaction of sodium carbonate with calcium chloride.

2) What type of a reaction did you write in question #1?

3) Write all the mole ratios between the compounds for the reaction in #1  
(hint: you should have six mole ratios)

4) Look up and define the following vocabulary words:

Precipitate:

Theoretical Yield:

Filtrate:

Experimental Yield:

Aqueous:

5) Look up and write out the equation for Percent Yield:

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