

## Limiting Reagents Data Sheet

**Student Name:**

**Partner Name:**

Date

### Instructor's Initials

## Grade

Write the balanced chemical equation for the precipitation reaction.

## Trial 1

## Trial 2

**Concentration of  $\text{Na}_2\text{CO}_3$  =**

**Exact Volume of  $\text{Na}_2\text{CO}_3$  =**

**Moles of  $\text{Na}_2\text{CO}_3$  =**

**Concentration of  $\text{CaCl}_2$  =**

**Exact Volume of  $\text{CaCl}_2$  =**

**Moles of  $\text{CaCl}_2$  =**

**Limiting Reagent =**

**Theoretical Yield (mol) =**

**Theoretical Yield (g) =**

**Mass of Watch Glass =**

**Mass of Watch Glass + Product =**

**Mass of Product =**

**% Yield =**

### Limiting Reagents Data Sheet

Show your work for calculating the initial moles of sodium carbonate for trial one.

Show your work for calculating the initial moles of calcium chloride for trial one.

Show your work for calculating the the theoretical maximum moles of product for trial one.

Show your work for calculating the theoretical maximum mass of product for trial one.

Show your work for calculating the %yield for trial one.