Name: _	Lab TA:							
Lab Day	Mon	Tue(am)	Tue(pm)	Wed	Thu(am)	Thur(pm)	Fri	
				Grade				
		>	95 >90	>85 >80	>70	<70		
		Report:						
		Prelaboratory	Quiz Score:					

## **Data Collection and Calculations:**

		Reaction 1	Reaction 2
1.	<u>CaCl<sub>2</sub></u> Exact molarity of the CaCl <sub>2</sub> solution:		
	Initial buret reading:		
	initial outer reading.		
	Final buret reading:		
	Volume of CaCl <sub>2</sub> added:		
	Moles of CaCl <sub>2</sub> added:		
	Moles of CaCO <sub>3</sub> expected based on moles of CaCl <sub>2</sub> added:		
2.	Na <sub>2</sub> CO <sub>3</sub> Exact molarity of the Na <sub>2</sub> CO <sub>3</sub> solution:		
	Initial buret reading:		
	Final buret reading:		
	Volume of Na <sub>2</sub> CO <sub>3</sub> added:		
	Moles of Na <sub>2</sub> CO <sub>3</sub> added:		
	Moles of CaCO <sub>3</sub> expected based on moles of Na <sub>2</sub> CO <sub>3</sub> added:		
3.	Limiting Reagant Identify the Limiting Reagant (CaCl <sub>2</sub> or Na <sub>2</sub> CO <sub>3</sub> ):		
	Mass of CaCO <sub>3</sub> Expected:		
4.	CaCO <sub>3</sub> Mass of Watch Glass:		
	Mass of Watch-Glass + CaCO <sub>3</sub> 1st Heating:		
	Mass of Watch-Glass + CaCO <sub>3</sub> 2 <sup>nd</sup> Heating:		
	Mass of CaCO <sub>3</sub> produced:		
5.	Efficiency % Yield:		
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1. Moles of CaCl <sub>2</sub> added	1.	Moles of CaCO <sub>3</sub> expected based on moles of CaCl <sub>2</sub> added.					
3. Mass of CaCO <sub>3</sub> Expected.	5.	% Yield					
Post Laboratory Question: Your TA	will not help y	ou with this final question.					
Diborane, B <sub>2</sub> H <sub>6</sub> , can be produced by the following re	eaction:						
$\underline{\hspace{0.5cm}} NaBH_4(aq) + \underline{\hspace{0.5cm}} H_2SO_4(aq) = \underline{\hspace{0.5cm}} H_2(g) + \underline{\hspace{0.5cm}} Na_2SO_4(aq) + \underline{\hspace{0.5cm}} B_2H_6(g)$							
What is the maximum quantity, in grams, of $B_2H_6$ the 1.55g of NaBH <sub>4</sub> ?	at can be prep	pared starting with 250. mL of 0.0875M H <sub>2</sub> SO <sub>4</sub> and					