## AP Chemistry

Craan	Chamictru	1	Door	Croc	lína	PL	-í-
Green	Chemistry	Lab	Peer	Grac	ung	KUD	пс

Whose lab report are you grading? Grader's Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

\*\*\*Take off at least one point for each box that is not checked in the table below.

	Requirements	Possible	Comments	
Requirements		<u>Earned</u> Points	Points	
Heading	Ţ	<u></u>	<u> </u>	
0	<b>)</b> Date of experiment			
	Lab partner(s)		3	
	Experiment Title			
Pre-Lab				
	Purpose			
	Background Knowledge (5 pts)			
	Materials			
	Safety		11	
	tocol			
	detailed enough to follow			
	ímperatíve			
	numbered			
Data				
	Data Table (-1/2 íf no títle)			
	Mass of crucible and cover			
	Mass of crucible, cover and sample		7	
	Mass of sample		7	
	Mass of crucible, cover and sample after heating			
	Units included in header			
	Neat, easy to read			
Data Pro	ocessing			
	$H_2O_{(g)}$ and $CO_{2(g)}$			
	Mass of $H_2O_{(g)}$ and $CO_{2(g)}$ = mass $_{before}$ - mass $_{after}$			
	Substitution			
	Boxed answer with g units			
	f metal bicarbonate, in initial sample			
	= 2 x (mass loss of sample / $62.03$ g/mol)			
	Substitution			
	Boxed answer with mol units		13	
	metal bicarbonate in sample		.,	
	= moles of metal bicarbonate x mass of metal bicarbonate			
	Substitution			
	Boxed answer with g units			
	percent of metal bicarbonate in sample			
	≈ (mass of metal bicarbonate / mass of mixture) x 100			
	Substitution			
	Boxed answer with %			
, D	All calculations are clearly labeled and easy to understand			

Mrs. Ní	Mrs. Níelsen AP Chemistry					
Conclu	Conclusion and Evaluation					
	Complete sentences					
	Correct spelling and grammar					
Paragr	aph 1:					
	What is Green Chemistry?					
	What are the practical applications of Green Chemistry?					
	Identify and explain the 3 principles of Green Chemistry applied in this lab					
Paragr	aph 2:					
	CLAIM: Based on your lab data, state your weight percent of metal bicarbonate in the mixture.		12			
	EVIDENCE: Significant data (quantitative) to support claim					
	REASONING: Scientific principles applied					
Paragr	Paragraph 3:					
	Compare your answer to the theoretical value (75% MHCO $_3$ :					
	25% M <sub>2</sub> CO <sub>3</sub> ) What is your percent error?					
	Identify sources of error					
	How would these errors affect the results?					
	How could the results be improved?					
Presentation						
	Well-organized, sections clearly labeled					
	Neat, legible writing					
	Table of contents includes information		4			
	Page numbers included		,			
	Lab is written in ink					
	Errors properly crossed out, no white out					
	Writes on one side of the page only					

Total points earned: \_\_\_\_\_ / 50

Write two things the student did well in this lab report:

- .
- .

Write two things that the student could do to improve the lab report: