Name:	Lab Partner:	
Experiment 7 Post-Lab Sheet		
Results Data (4 pts)		
mass of crucible and cover		
mass of crucible, cover and NaHCO ₃		
mass of crucible, cover and product		
theoretical yield of Na ₂ CO ₃		
theoretical yield of Na ₂ O		
mass of product		
identity of product		
% yield of product		
(2 pts) Show how you calculated the theoretical		
(1 pt) Show how you calculated the % yield:		
Discussion1. (2 pts) How many significant figures should your % yield have? What error range does this imply? Does 100% fall within the error range of your % yield?		

2. (1 pt) If the reaction did not go to completion (finish), would the % yield be greater than 100% or less than 100%? Be careful—how do you measure the yield?

3.	(2 pts) Explain all the evidence that helps you identify the product.
4.	(2 pts) If your % yield is 99.8%, does this mean you should be 99.8% certain of the identity of the product? Explain.
5.	(1 pt) Does 100% yield mean 100% purity? Explain.
6.	(2 pts) Do the chemical tests prove that carbonate is present, that oxide is absent, or both? Explain briefly.
7.	(3 pts) Could your product be a mixture (of any ratio, 1:1, 99:1, etc) of Na ₂ O and Na ₂ CO ₃ ? Discuss what your experimental results indicate about whether it is or isn't a mixture.