

Name	Teacher	Period
		Date

### Evaluating Reasoning as a Class

Question: Did a chemical reaction occur when vinegar and baking soda were mixed together?							Answer Yes or No in each column			
<b>Student Data</b>							Includes appropriate science vocabulary?	Explains the science facts (big ideas) behind the Evidence and Claim correctly?	Answers why or how the Evidence supports claim? (Connects E & C)	Total Score (Add # Yes in all columns)
	Balloon Diameter Before	Balloon Diameter After	Vinegar Initial Temperature	Temperature of Vinegar & Baking Soda	Change in Temp.	Group Observations				
Average of 5 Groups	4 (cm)	19 (cm)	22 (°C)	15 (°C)	- 7 (°C)	Bubbles formed in flask Balloon expanded an average 15cm in diameter;				
<b>Given Scientific Reasoning</b>							R1	R2	R3	Total
a) I think a chemical reaction did occur. The reason for that is the vinegar and baking soda reacted with each other and there was a change in temperature. Therefore a chemical reaction occurred.										
b) As we have learned in science class, in a chemical reaction something new is made. In this case gas bubbles (carbon dioxide) were produced. Evidence of a chemical reaction includes formation of a gas and temperature change. Both of which happened.										

#### Answer the following questions:

- Which Reasoning statement is the strongest: **(circle one) a, b** Why?
  
- Which Reasoning statement is the weakest: **(circle one) a, b** Why?