**Evaluating Claims as a Class**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Question:** Did a chemical reaction occur when vinegar and baking soda were mixed together? | **Answer Yes or No in each column** | | |  |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Student Data** | | | | | | | |  | 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; |     **Claim Statements Given**   1. A chemical reaction did occur in this experiment. 2. There was a change in temperature. 3. I think a chemical reaction did occur because a gas was produced. | **Does Claim answer the question ASKED?** | **Does Claim explain the cause and effect**  **“….because…..”** | **Is the Claim a complete sentence?** | **Total Score**  (Add Yes in all columns not shaded) |
| C1 | C2 | C3 | Total |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Answer the following questions:**

Which Claim is the strongest: **(circle one) a, b, c** Why?

Which Claim is the weakest: **(circle one) a, b, c** Why?