**Evaluating Claims as a Class**

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| **Question:** Did a chemical reaction occur when vinegar and baking soda were mixed together? | **Answer Yes or No in each column** |  |
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| **Student Data**  |
|  | Balloon DiameterBefore  | Balloon Diameter After | VinegarInitial Temperature | Temperature of Vinegar & Baking Soda | Change in Temp.  | GroupObservations |
| 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?