**Entropy Lab**

Problems:

1. What kind of reaction will happen when you add 5 ml of sodium bicarbonate to 25 ml of vinegar?
2. What will happen to a “glowing splint” immediately after you mix the 2 chemicals?
3. What does this have to do with entropy?

Material: Vinegar, Sodium Bicarbonate, wooden splint, matches and E. Flask.

Data:

|  |  |
| --- | --- |
|  | Observations with a “glowing splint” |
| Baking Soda + Vinegar |  |

Conclusion: Use at least 50 words. Answer the following questions:

1. What is the formula for baking soda (sodium bicarbonate)?
2. What is the formula for vinegar (acetic acid)?
3. What is the equation for the reaction that you saw?
4. What is entropy?
5. What phase gave you evidence that a chemical reaction occurred?
6. How are phases related to entropy?