Balloon and Vinegar Experiment- Observation Data Sheet

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| **Making an Observation**  *Draw the Bottle* ***Before:*** |
| **Step 1: Ask a Question**  *HOW DOES the amount of baking soda AFFECT how big the balloon gets (in width)?*  ***IV:***  ***DV:***  ***STEP 2: Gather INFORMATION:*** *What do we know about chemical reactions?* |
| **Step 3: Make a Hypothesis**  *Draw a picture of what you think will happen:*  *Write:*  I think *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.* |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Step 4: Experiment!**  **IV:**  **DV:**  **CONTROL VARIABLES:**  **CONTROL GROUP:**  **EXPERIMENTAL GROUP(S):**  *Draw the Bottle* ***After****:*   |  |  |  |  | | --- | --- | --- | --- | |  | TRIAL 1 | TRIAL 2 | TRIAL 3 | | Bottle 1  (No Baking Soda) |  |  |  | | Bottle 2  (1 TBS Baking Soda) |  |  |  | | Bottle 3  (2 TBS Baking Soda) |  |  |  | |
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| **Step 5: Conclusion**  *Write a Sentence:*  When I added vinegar to the bottle and put the balloon on top…  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  I (SUPPORT/REJECT) MY HYPOTHESIS (circle ONE) BECAUSE….  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |

Happy Experimenting!