|  |  |
| --- | --- |
| **Date:** | **Name:** |
| **Lab Title:** Testing Acids and bases | |
| **Purpose (Question/ Hypothesis):**  *(Add in want we were trying to figure out in this lab…)* | |
| **Materials List** | |
| * Diluted Acetic Acid * Diluted Sulphuric Acid * Diluted Citric Acid * Diluted Sodium bicarbonate * Diluted Sodium Hydroxide * Diluted Magnesium Hydroxide | * *(add in all other materials here)* |
| **Set-up Diagrams:**  *(Set up for distributing materials and for testing…) Diagrams are great! Draw in here or draw a picture on paper and upload it here…)* | |
| **Procedure/Observations:** For determining which Solutions are Aids and which are bases  *(Remember we tested a know acid?? Explain what we did here…)* | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Procedure:** For determining relative strength of **ACIDS**  *(Explain generally how the testing works here)* | | | | | | | | |
| **Data/Observations**  *(Use the data sheets provided to fill in the chart below. The descriptions in the data sheet are not all great so you can add your own description based on what you know happened. Acids slowly turned from purple reddish to blue green* | | | | | | | | |
| Solution tested:  **ACID #1** | | Solution used for testing:  **BASE #6** | Solution tested  **ACID #4** | | Solution used for testing  **BASE #6** | Solution  tested:  **ACID #5** | | Solution used for testing:  **BASE #6** |
| # of drops | Description/Picture | | # of drops | Description/Picture | | # of drops | Description/Picture | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Procedure: For determining relative strength of **BASES**  *(Explain generally how the testing works here)* | | | | | | | | |
| **Data/Observations**  *(Use the data sheets provided to fill in the chart below. The descriptions in the data sheet are not all great so you can add your own description based of what you know happened. Bases slowly turned from blue green to purple reddish* | | | | | | | | |
| Solution tested:  **BASE #2** | | Solution used for testing  **ACID #5** | Solution tested  **BASE #3** | | Solution used for testing  **ACID #5** | Solution tested  **BASE #6** | | Solution used for testing  **ACID #5** |
| # of drops | Description/Picture | | # of drops | Description/Picture | | # of drops | Description/Picture | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |
|  |  | |  |  | |  |  | |

|  |
| --- |
| **Conclusions:**  *(What were the results of the experiment?)* |
| **Sources of Error and Improvement:**  *(What could have caused your results to be inaccurate? Try and get 5-10 things that could have caused errors in your readings/testing)*  *What could be done to make the experiment better or more accurate? Try and think of 3-5 things.* |