|  |  |  |  |
| --- | --- | --- | --- |
| Solution Tested | Bromocresol Green indicator color | Bromothymol Blue Indicator Color | Estimated pH |
| Distilled water | Blue | Yellow | Greater than 5.4 but less than 6.0 |
| Distilled water with \_\_4\_\_\_ drops of acetic acid | Yellow | Yellow | 3.8 or less |
| Distilled water w/ small sample NaHCO3 | Blue | Blue | Greater than 7.6 |
| Distilled water w/ NaHCO3 and \_\_6\_\_\_ drops of acetic acid | Blue | Yellow | Greater than 5.4 but less than 6.0 |
| Ordinary Tap Water | Blue | Green | Between 6.0 and 7.6 |
| Tap water w/ \_\_1\_\_\_ drops of acetic acid | Yellow | Yellow | Less than 3.8 |

* **What effect does adding Acid have to the pH of our water?**
* **Why would it take more drops of Acetic Acid to change the pH when sodium bicarbonate is dissolved in the water?**
* **What kind of a system do acetic acid and sodium bicarbonate (NaHCO3) form?**