**Name/s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Now That’s pHun!**

**Biology**

**Materials:**

Baking soda solution

Salt solution

Lemon juice

Vinegar

Ammonia

Distilled water

Tap water

Soda

Saliva

Shampoo

Tweezers

Litmus paper

**Problem:** What kinds of substances are acids, which are bases, and which are neutral?

**Hypothesis (predict whether each solution is an acid, base, or neutral):** Using the “**Prediction”** column in the chart below, write...acid, base, or neutral for each substance.

**Procedures:**

1. Begin at your assigned lab station.

2. Using tweezers, dip the litmus paper into the solution for 20 seconds.

3. Match the color of the litmus paper to the key on the bottle.

4. Record the approximate pH of the solution in the data chart.

5. Checkmark the correct column in the data chart for acid, base, or neutral.

6. Rotate stations when the teacher gives permission, and repeat from step 2.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Solution** | **Prediction** | **pH (0-14)** | **Acid (0-6)** | **Base (8-14)** | **Neutral (7)** |
| **Baking soda solution** |  |  |  |  |  |
| **Salt solution** |  |  |  |  |  |
| **Lemon juice** |  |  |  |  |  |
| **Vinegar** |  |  |  |  |  |
| **Ammonia** |  |  |  |  |  |
| **Distilled water** |  |  |  |  |  |
| **Tap water** |  |  |  |  |  |
| **Soda** |  |  |  |  |  |
| **Saliva** |  |  |  |  |  |
| **Shampoo** |  |  |  |  |  |

Where do you suppose is the most acidic location in the human body? Why?