

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

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

# The pH Scale

Fill in the blanks using the word bank below:

acidic, basic, neutral, 7, hydrogen, hydroxide, 0, 14

1. The pH scale ranges from \_\_\_\_\_ to \_\_\_\_\_.
2. A pH of \_\_\_\_\_ is considered neutral.
3. Solutions with a pH less than 7 are \_\_\_\_\_.
4. Solutions with a pH greater than 7 are \_\_\_\_\_ or alkaline.
5. The pH scale measures the concentration of \_\_\_\_\_ ions in a solution.
6. Bases have more \_\_\_\_\_ ions than hydrogen ions.



## pH Comparisons:

1. Which is more acidic: a solution with pH 3 or pH 5? \_\_\_\_\_
2. Which is more basic: a solution with pH 10 or pH 12? \_\_\_\_\_
3. Is a solution with pH 2 acidic, basic, or neutral? \_\_\_\_\_
4. Is a solution with pH 9 acidic, basic, or neutral? \_\_\_\_\_
5. Which pH value represents a stronger acid: pH 1 or pH 4? \_\_\_\_\_
6. Which pH value represents a weaker base: pH 8 or pH 11? \_\_\_\_\_
7. What is the pH of a neutral solution? \_\_\_\_\_