

## ACIDS AND BASES

- \_\_\_\_\_ 1. A substance that produces hydrogen ions in solution is a(n) \_\_\_\_\_.  
a. acid                                      b. base
- \_\_\_\_\_ 2. The familiar sour tastes of citrus fruits is caused by the presence of \_\_\_\_\_ in these foods.  
a. acid                                      b. base
- \_\_\_\_\_ 3. An acid that ionizes almost completely in solution is a \_\_\_\_\_.  
a. strong acid                              b. weak acid
- \_\_\_\_\_ 4. The strength of a base is determined by \_\_\_\_\_.  
a. the concentration of the solution  
b. how completely it separates into ions in solution
- \_\_\_\_\_ 5. A substance that produces hydroxide ions in solution is a(n)  
a. acid                                      b. base
- \_\_\_\_\_ 6. A hydrogen ion is indicated by \_\_\_\_\_.  
a.  $H^+$                                       b.  $OH^-$
- \_\_\_\_\_ 7. The pH of a substance can be determined by using a device called \_\_\_\_\_.  
a. an acid meter                              b. a pH meter
- \_\_\_\_\_ 8. The term dilute is used to refer to the \_\_\_\_\_ of an acid or base.  
a. strength                                      b. concentration
- \_\_\_\_\_ 9. A hydroxide ion is indicated by \_\_\_\_\_.  
a.  $OH$                                       b.  $OH^-$
- \_\_\_\_\_ 10. An organic compound that changes color in an acid or a base is an \_\_\_\_\_.  
a. indicator                                      b. alcohol
- \_\_\_\_\_ 11. The acidity of a solution can be indicated by its \_\_\_\_\_.  
a. pH                                      b. concentration
- \_\_\_\_\_ 12. On the pH scale, a solution with a pH of 7 is \_\_\_\_\_.  
a. acidic                                      b. neutral
- \_\_\_\_\_ 13. When an acid is dissolved in water  $H^+$  ions form \_\_\_\_\_.  
a. hydrogen molecules                              b. hydrogen ions
- \_\_\_\_\_ 14. The formula for a hydroxide ion is \_\_\_\_\_.  
a.  $H^+$                                       b.  $OH^-$
- \_\_\_\_\_ 15. On the pH scale, a solution with a pH of 3 is \_\_\_\_\_.  
a. acidic                                      b. basic