ACIDS, BASES, AND SALTS from the Elements of Chemistry Series

**Pre-Test**

Directions: This will help you discover what you know about acids, bases, and salts before you begin this lesson. Answer the following True or False.

1. Acids and bases are fundamental to the functioning of our world. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

2. Bases are rarer than acids. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

3. Chemists can use indicator paper, or litmus paper, to determine

if a solution is an acid or a base. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

4. Acids and bases react with each other so that both are neutralized. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

5. Salts can produce acids and bases. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

6. A strong base has the same strength as a weak acid. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

7. Water can act as both an acid and a base. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

8. The potential hydrogen scale is known as the pH scale. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

9. Bases cannot be measured on the pH scale. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

10. The human body does not contain acids or bases. T\_\_\_\_\_\_\_ F\_\_\_\_\_\_\_

**Video Quiz**

Directions: Answer the following either true or false, or fill in the blank with the correct word to make it true.

1. Both acids and bases are electrolytes—good conductors of electric current. T\_\_\_\_\_\_ F\_\_\_\_\_\_

2. Bases always react with metals. T\_\_\_\_\_\_ F\_\_\_\_\_\_

3. Acids react with bases so that the properties of both are lost to form water and a salt. This is called \_\_\_\_\_\_\_\_\_\_

4. Arrhenius defined acids as substances that generate hydroxide ions, OH¯, when dissolved in water.

T\_\_\_\_\_\_ F\_\_\_\_\_\_

5. Brønsted and Lowry defined a base as any substance that can accept a hydrogen ion. T\_\_\_\_\_\_ F\_\_\_\_\_\_

6. Both acids and bases are related to the concentration of \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ present.

7. A strong acid is one that readily transfers H+ ions to water. T\_\_\_\_\_\_ F\_\_\_\_\_\_

8. A conjugate acid-base pair differs by several H+ ions. T\_\_\_\_\_\_ F\_\_\_\_\_\_

9. The pH scale is a measurement of the acidity and basicity of compounds. T\_\_\_\_\_\_ F\_\_\_\_\_\_

10. When rainfall has a reading on the pH scale lower than 5.6, it is called \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_.