Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_

**Acids and Bases**

**pH Game**

 1. What is the range of possible pH values?

 2. What is the pH range for acids?

 3. What is the pH range for bases?

 4. What is the pH of neutral compounds?

 5. Write 3 other things you learned from playing the pH game.

**Indicator Activity**

 What is an acid-base indicator?

|  |  |  |  |
| --- | --- | --- | --- |
| **Indicator Type** | **Acid** | **Base** | **Neutral** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Properties of Acids and Bases**

 List 4 properties of acids

**Acids usually begin with H**

*

List 4 properties of bases

**Bases usually end in OH**

**Neutralization Reactions**

**Acid + Base 🡪 Salt + H2O**

 ex) HCl + NaOH 🡪 NaCl + H2O

 ex) H2CO3 + Sr(OH)2 🡪 +

 Practice: Predict the products of the following neutralization reactions

 1) HClO4 + NaOH 🡪 +

 2) HBr + Ba(OH)2 🡪 +

**Acids Reacting with Active Metals**

ex) Ba + H2SO4 🡪 BaSO4 + H2

**H2(g) is always a product**

 Practice: Predict the products of the following reactions

 1) Li + HCl 🡪 +

2) Mg + HNO3 🡪 +