**ACIDS, BASES and pH**

**DIRECTIONS:** Go to the science blog, Trimester 1, Water Properties, click on the Acids, Bases, and pH Video. As you watch the video, answer the following questions in complete sentences.

1. Draw 2 water molecules attached by a hydrogen bond.
2. Sometimes a hydrogen from one water molecule detaches from that water molecule and attaches to the other water molecule and forms a Hydronium molecule. Draw a Hydronium molecule (H3O+).
3. Draw a hydroxide ion (OH-).
4. What does “p” in pH stand for?
5. Write the pH equation.
6. What is the answer for pH = –log [1x10-7]?
7. What does it mean if the pH is 7 in terms of the concentration of the hydrogen ion?
8. A solution with a pH greater than 7 is called what?
9. A solution with a pH less than 7 is called what?
10. What acid is found in your stomach?
11. What is the answer for pH = -log [1 x 10-2]?
12. What is the name of the base NaOH?
13. What is the answer for pH = -log [1 x 10-12]?
14. What is happening to the pH of our oceans and what is the cause?