

Name: _____

Period: _____

HW5:4 Acids and Bases
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Assigned: Thurs., 12/7 and Fri., 12/8
Due: Mon., 12/11 and Tues., 12/12

1. What is an acid?
 2. What is a base?
 3. Are foods acidic or basic?
 4. Are cleaning products acidic or basic?
 5. Why?
 6. What is pH?
 7. If you needed a pH of 7.8 in a pool, but the pool has a pH of 6.8, what do you add to the pool?
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8. Acid, Base, or Neutral?
 - A. ____ Has a pH less than 7.
 - B. ____ Makes H⁺ ions in water.
 - C. ____ pH of 7.
 - D. ____ Vinegar
 - E. ____ Has a pH of 13.
 - F. ____ Has a pH of 2.3
 - G. ____ Soap
 - H. ____ Antacid tablets
 - I. ____ Distilled water
 - J. ____ Makes pH go down.
 - K. ____ Makes pH go up.
 - L. ____ Makes OH⁻ ions in water.
 - M. ____ Neutralizes a bases
 - N. ____ Neutralizes an acid
 - O. ____ Salt water
 - P. ____ Has few OH⁻ ions.
 9. What is a titration?
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10. In the lab your friend says you need to dilute an acid. He looks like he's going to pour water into the acid. What do you do and why?
 11. If you mix acids and bases together, what do you get? (include the final pH)
 12. Will weak acids hurt you?
 13. How do you know for sure?
 14. What causes acid rain?
 15. What affect does acid rain have on buildings?
 16. Solution A (pH 13); Solution B (pH 10)
 - A. ____ Which is more acidic?
 - B. ____ Which is more basic?
 - C. ____ Which has more H⁺ ions?
 - D. ____ Which has less OH⁻ ions?
 17. Finish this titration reaction reaction (and balance the salt)
$$\text{Mg(OH)}_2 + \text{HCl} \rightarrow$$
 18. What is a salt?