

### Properties of Acids & Bases 101 Video Review

1. What are acids? \_\_\_\_\_  
\_\_\_\_\_  
What is the element symbol for acids? \_\_\_\_\_  
Another name for Hydrogen ions = \_\_\_\_\_  
Give 3 examples of Acids. \_\_\_\_\_
2. What are the properties of acids? \_\_\_\_\_  
\_\_\_\_\_
3. The closer the pH number of an acid gets to 7 then the \_\_\_\_\_ it becomes. The further the pH number of an acid moves away from 7 then the \_\_\_\_\_ it becomes. A pH of \_\_\_\_\_ would be considered a weak acid, while a pH of \_\_\_\_\_ would be considered a strong acid.
4. What are bases? \_\_\_\_\_  
\_\_\_\_\_  
What is the element symbol for bases? \_\_\_\_\_  
Give 3 examples of Bases. \_\_\_\_\_  
Why would we never use ammonia or bleach for cooking or brushing our teeth? \_\_\_\_\_  
\_\_\_\_\_
5. What are the properties of bases? \_\_\_\_\_  
\_\_\_\_\_
6. The closer the pH number of a base gets to 7 then the \_\_\_\_\_ it becomes. The further the pH number of a base moves away from 7 then the \_\_\_\_\_ it becomes. A pH of \_\_\_\_\_ would be considered a weak base, while a pH of \_\_\_\_\_ would be considered a strong base.
7. Why is it harmful to get a perm or use hair relaxers? \_\_\_\_\_  
\_\_\_\_\_
8. pH scale stands for \_\_\_\_\_. The scale is used to measure \_\_\_\_\_. The scale is from \_\_\_\_\_. \_\_\_\_\_ is an acid, \_\_\_\_\_ is neutral, \_\_\_\_\_ is a base. The closer the number is to 7, then the \_\_\_\_\_ it is. The further the number is from 7 then the \_\_\_\_\_ it is.

9. Label and color the following pH scale:

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10. A rule of thumb when it comes to us using acids and bases is that the closer a substance pH number gets to 7 then the \_\_\_\_\_  
\_\_\_\_\_. The further a substance pH number is from 7 then then \_\_\_\_\_  
\_\_\_\_\_
11. Name 2 strong acids \_\_\_\_\_ 2 weak acids \_\_\_\_\_  
2 strong bases \_\_\_\_\_ 2 weak bases \_\_\_\_\_
12. Why should you not mix ammonia and bleach together? \_\_\_\_\_  
\_\_\_\_\_
13. What is litmus paper used for? \_\_\_\_\_  
\_\_\_\_\_
14. Acids turn blue litmus paper \_\_\_\_\_, Bases turn red litmus paper \_\_\_\_\_.

**Quiz – Answer the following questions.**

1. A substance feels slippery when wet. Acid or Base? \_\_\_\_\_
2. A substance turns red litmus paper blue. Acid or Base? \_\_\_\_\_
3. A substance tastes sour. Acid or Base? \_\_\_\_\_
4. A substance tastes bitter. Acid or Base? \_\_\_\_\_
5. A substance corrodes metal. Acid or Base? \_\_\_\_\_
6. If a substance is considered a base then it has more \_\_\_\_\_ ions in it.
7. If a substance is considered an acid then it has more \_\_\_\_\_ ions in it.
8. A substance with a pH of 2 would be considered a strong or weak acid? \_\_\_\_\_
9. The closer a substance gets to a pH of 7 the weaker or stronger it becomes? \_\_\_\_\_
10. Ammonia would be considered to be a strong acid, weak acid, strong base or weak base? \_\_\_\_\_
11. A banana would be considered to be a strong acid, weak acid, strong base or weak base? \_\_\_\_\_
12. Why would it be dangerous to mix bleach and ammonia together? \_\_\_\_\_  
\_\_\_\_\_
13. Why do people take Tums/Rolaids? \_\_\_\_\_
14. What substance is considered neutral on the pH scale? \_\_\_\_\_