

Physical Science Acids and Bases Warm Up Date _____ Name _____

1. When an acid and base combined what reaction results?
2. What ion found in a solution would make it acidic?
3. What ion found in a solution would make it basic?
4. What scale is used to determine whether a solution is acidic or basic?
5. A pH of less than 7 indicates the solution is a/an _____.
6. A pH greater than 7 would indicate the solution was a/an _____.
7. A neutral Solution has a pH of _____.
8. What are some properties of bases?
9. Bases will turn litmus paper what color?
10. Acids will turn litmus paper what color?
11. The pH of 7 is based on the pH of what ?
12. A pH of 2 represents a _____.
13. A pH of 13 represents a _____.
14. Strong Base Beet juice indicator solution will be red in a/an _____.
15. Beet juice indicator solution will be blue in a/an _____.
16. Bromthymol blue solution will turn what color in acidic solutions?
17. Cabbage indicator solution will turn what color in the presence of bases?
18. Phenolphthalein indicator solution will turn what color in the presence of bases?
19. Phenolphthalein indicator solution will turn what color in the presence of acids?
20. What is a solution that has an excess of H^+ (hydrogen) ions?
21. Acids are found on the pH scale between the numbers:
22. Bases are found on the pH scale between the numbers:

<p>What is an acid? How does it taste?</p>	<p>_____</p> <p>_____</p>
<p>What are hydronium ions? How are hydronium ions formed?</p>	<p>• _____</p> <p>• _____</p>
<p>Acids are <i>corrosive</i>. What does this mean?</p>	<p>• _____</p> <p>• _____</p> <p>• _____</p> <p>• _____</p>
<p>• What is an indicator? • What is litmus paper? • What colors are they available in? • How do they change with acids and bases?</p>	<p>• _____</p> <p>• _____</p> <p>• _____</p> <p>• _____</p>
<p>Name one use for each of the following acids: Sulfuric Acid, Hydrochloric Acid, Citric Acid and Carbonic Acid.</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>
<p>What is a base? How does it taste and feel?</p>	<p>• _____</p> <p>• _____</p> <p>• _____</p>
<p>Name 3 substances that contain bases.</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
<p>Discuss some uses of the following bases: Sodium Hydroxide, Calcium Hydroxide, and Magnesium Hydroxide</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
<p>What does a strong acid do in water? Name some examples of strong acids.</p>	<p>• _____</p> <p>• _____</p> <p>• _____</p>
<p>What does a weak acid do in water? Name some examples of weak acids.</p>	<p>• _____</p> <p>• _____</p> <p>• _____</p>
<p>What's the difference between a strong base and a weak base?</p>	<p>_____</p> <p>_____</p>
<p>What is a neutralization reaction?</p>	<p>• _____</p> <p>• _____</p>

<p>What forms when an acid and base neutralize each other?</p>	<p>• _____</p> <p>• _____</p>
<p>What is the pH of a solution?</p>	<p>• _____</p> <p>• _____</p>
<p>What does a "7" on the pH scale mean? What is one of the only substances that have a pH of 7?</p>	<p>• _____</p> <p>• _____</p>
<p>What is the pH of acidic solutions? What is the pH of basic solutions?</p>	<p>_____</p> <p>_____</p>
<p>What is a salt? What salt do you think would form from Hydrochloric Acid (HCl) neutralizing Sodium Hydroxide (NaOH)?</p>	<p>_____</p> <p>_____</p>

Summary: (what is an acid and base? How are they indicated? What is pH? How is it connected to acids and bases?)