Na	me(s) _		Date	pH Analysis Gizmo
	Acids	owledge Questions (Do these BEFORE using are substances that produce hydrogen ions (lole of an acid.	•	er. Lemon juice is an
	A.	What does lemon juice taste like?		
2.		What does it feel like if lemon juice gets in your are substances that produce hydroxide ions ble of a base.	our eye? (OH <sup>-</sup> ) when dissolved in w	 rater. Hand soap is an
	A.	What does soap feel like?		
	В.	What does it feel like if soap gets in your eye	?	
sul is o	ostance conside e <i>pH Al</i>	gth of an acid or base is measured on the <b>pH</b> es have a pH below 7. <b>Basic (alkaline)</b> substanted <b>neutral</b> .  Inalysis Gizmo™ allows you to find the pH of a se in the tube is <b>Ammonia</b> , and click <b>Test</b> . W	nces have a pH above 7. variety of liquids. In the G	Pure water has a pH of 7 and
Na	me(s) _		Date	pH Analysis Gizmo
	Acids	wledge Questions (Do these BEFORE using are substances that produce hydrogen ions (lole of an acid.	,	er. Lemon juice is an
	A.	What does lemon juice taste like?		
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	A.	What does soap feel like?		
	B.	What does it feel like if soap gets in your eye	?	
Giz	zmo Wa	arm-up		

The strength of an acid or base is measured on the pH scale. The pH scale runs from 0 to 14. Acidic substances have a pH below 7. Basic (alkaline) substances have a pH above 7. Pure water has a pH of 7 and is considered **neutral**.

The *pH Analysis* Gizmo™ allows you to find the pH of a variety of liquids. In the Gizmo, check that the Substance in the tube is Ammonia, and click Test. Wait until the animation is finished.

1. <b>I</b>	Indicators change color in acids or bases. What is the color of the pH paper?										
2. (	Compare the paper to the <b>pH color chart</b> . What is the pH of ammonia?										
3. I	s ammonia acidic or basic?										
	: Use the Gizmo to	· -		s. Classify each substance as acidic (pH							
	0-14 pH indicator paper										
	Material in the tube	pH value	Acidic, Basic, or neutral?	Strong or Weak?							
	Bleach										
	Hand soap										
	Juice (lemon)										
	Milk										
	Saliva (human)										
	Stomach acid										
	Vinegar										
	Water (distilled)			N/A							
<ol> <li>Indicators change color in acids or bases. What is the color of the pH paper?</li> <li>Compare the paper to the pH color chart. What is the pH of ammonia?</li> <li>Is ammonia acidic or basic?</li> <li>Test: Use the Gizmo to find the pH of each of the available substances. Classify each substance as acidic (pH &lt; 7), basic (ph &gt; 7), or neutral (pH = 7).</li> </ol>											
	0-14 pH indicator paper										
	Material in the tube	pH value	Acidic, Basic, or neutral?	Strong or Weak?							
	Bleach										
	Hand soap										
	Juice (lemon)										
	Milk										

N/A

Saliva (human)

Stomach acid

Vinegar

Water (distilled)