Introduction to Acids & Bases: A WebOuest

1. http://www.visionlearning.com/library/module_viewer.php?c3=&mid=58&l= The word acid comes from the Latin word _____ meaning Boyle stated that acids taste ______, are corrosive to ______, and become less acidic when mixed with ______. He described bases as feeling ______, changing litmus to the color ______, and becoming less basic when mixed with an _____. About 200 years later, Arrhenius proposed that water can dissolve many compounds by separating them into their individual _____. He suggested that acids contain _____ and can dissolve in water to release _____. Bases dissolve in water to release _______ ions into the solution. 2. http://www.chem4kids.com/files/react_acidbase.html Every liquid has _____ & ____ traits. One exception might be _____i. It is just water. However, the ______ions and ions cancel each other out. 3. http://chemistry.about.com/od/acidsbases/a/acidbaseformula.htm Give the formula for the following acids: Hydrofluoric Acid-Hydrochloric Acid-Hydrosulfuric Acid-Nitric Acid-Sulfuric Acid-Acetic Acid-Boric Acid-Give the formula for the following bases: Sodium Hydroxide-Potassium Hydroxide-Calcium Hydroxide-Iron (II) Hydroxide-4. http://chemistry.about.com/od/acidsbases/a/acidsbasesterms.htm Scroll down to Properties of Acids. Complete the following sentences for **Acids** □ Tastes _____ ☐ Changes litmus from blue to _____. □ Solutions are _____ (conduct electricity). □ React with bases to form _____ + ____. Neutralization ☐ Create _____ gas when reacting with an active metal. ☐ Five (5) Common acids (scroll down):

Properties of Bases	
☐ Tastes	_•
□ Feels	·
☐ Don't change the color of	
□ Solutions are	(conduct electricity).
	+
Neutralization	
☐ Four (4) Common Bases:	
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•	<u>d/acidsbases/a/phtable.htm</u> and ary/module_viewer.php?c3=∣=58&l
Scroll down on the site above until y	<u> </u>
before down on the site above until y	ou get to the pit seale
Using the sites above, answer the qu	estions below:
A. pH range of acids	
B. pH of a neutral substance	
C. pH of a basic (alkaline) subs	tance
The lowest pH should be listed first given as examples.	e and list the following substances according to pH and the highest base listed last. HCl and NaOH are
Substances:	Correct Acid-Base pH list
Pure water	1 HCl
Apples	
Ammonia	
Lime (Calcium Hydroxide)	
Milk	
HCl	
Vinegar	
Baking Soda	
NaOH	
Human Blood	
Lemon juice Battery Acid	
Milk of Magnesia	
Rain water	
Egg whites	
Drano	14 NaOH
6. <a chemistry.about.com="" href="http://chemistry.about.com/limes.c</td><td>ibrary/weekly/blacidquiz.htm</td></tr><tr><td>Take the quiz.</td><td></td></tr><tr><td>Place score here</td><td>·</td></tr><tr><td></td><td></td></tr><tr><td>7. <a href=" http:="" li<="" td=""><td>ibrary/weekly/bl060603a.htm</td>	ibrary/weekly/bl060603a.htm
Take the quiz. Place score here	