ACIDS AND BASES WEBQUEST

♦ Part 1: Acids and Bases Introduction:

Go to the http://www.chem4kids.com/files/react_acidbase.html and read about acids and bases.

. Define an acid?		
Define a base?		
2. How do scientists measure	e the strength of acid	ds and bases? Describe this scale
3. Describe the physical prop http://education.abc.net.au/re		and feel of acids and bases.
Properties of Acids	Neutral	Properties of Bases

- Next, we will take a look at some examples of acids and bases.
 - Go to the <u>VisionLearning Website</u> and learn more about the properties of acids and bases.
- 4. Give 4 examples of acids and 4 examples of bases from the pH Scale on the site.

Exam	ples of Acids	Exan	nples of Bases
	Acid and Base No		
http://www.	Acid and Base No visionlearning.com/librar	y/module_viewer.p	
http://www.v	visionlearning.com/librar	y/module_viewer.p	
http://www.v	visionlearning.com/librar	y/module_viewer.p	meaning
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http://www.v	visionlearning.com/librar cid comes from the Latin d that acids taste	word, are	meaning corrosive to, and
http://www.v	visionlearning.com/librar cid comes from the Latin d that acids taste , change the s acidic when mixed with	word, are color of litmus to	meaning corrosive to, and
http://www.v	visionlearning.com/librar cid comes from the Latin d that acids taste , change the s acidic when mixed with	word, are color of litmus to	meaning corrosive to , and , changing litmus to th
http://www.v	visionlearning.com/librar cid comes from the Latin d that acids taste , change the s acidic when mixed with	word, are color of litmus to	meaning corrosive to , and , changing litmus to th
http://www.v	visionlearning.com/librar cid comes from the Latin d that acids taste, change the s acidic when mixed with ed bases as feeling, and becoming	word, are color of litmus to g less basic when reposed that water ca	meaning corrosive to , and , changing litmus to the mixed with an
http://www.v	visionlearning.com/librar cid comes from the Latin d that acids taste, change the s acidic when mixed with d bases as feeling, and becoming vears later, Arrhenius pro	word, are color of litmus to g less basic when reposed that water cattheir individual	meaning corrosive to , and , changing litmus to the mixed with an an dissolve many
http://www.v	visionlearning.com/librar cid comes from the Latin d that acids taste, change the s acidic when mixed with ed bases as feeling, and becoming vears later, Arrhenius pro	word, are color of litmus to g less basic when reposed that water cattheir individual	meaning corrosive to , and , changing litmus to the mixed with an an dissolve many .

solution.

http://www.chem4kids.com/files/react_acidbase.html

1.	Every liquid has & traits can be
	both an acid and a base, depending on how you look at it.
2.	It can be considered an acid in some reactions and a base in others. Water
	can even react with itself to form acids and bases.
3.	Most of the time, the positive and negative in distilled water are
	in equal amounts and cancel each other out.
4.	Most water you drink from the has other ions in it.
5.	Those special ions in solution make something acidic or basic.
6.	In your body there are small compounds called
7.	The name tells you those are acids. In fruits there is something called
8.	A chemist named came up with a way to define
	acids and bases in 1887.
9.	He saw that when you put molecules into water, sometimes they break down
	and release an
10	. At other times, you find the release of an
11	. When a hydrogen ion is released, the solution becomes
	When a hydroxide ion is released, the solution becomes
	http://chemistry.about.com/od/acidsbases/a/acidbaseformula.htm
•	Give the formula for the following acids:
	1. Hydrofluoric Acid-
	2. Hydrochloric Acid-
	3. Hydrosulfuric Acid-
	4. Nitric Acid-
	5. Sulfuric Acid-
	6. Acetic Acid
	7. Boric Acid

2. Potassium Hydroxide			r the following oxide-	bases:		
3. Calcium Hydroxide- 4. Iron (II) Hydroxide- *Part 3: Understanding the pH scale • SITE #1 https://phet.colorado.edu/sims/html/ph-scale-basics/latest/ph-scale-basics_en.html Using the simulation, report the pH reading and classify into acid or base Subtance pH Acid or Base Orange Cleaner Orange Juice Blood Battery Acid Spit Soda Pop (Dr Pepper) Hand Soap Chicken Soup Milk Milk	-					
◆Part 3: Understanding the pH scale • SITE #1 https://phet.colorado.edu/sims/html/ph-scale-basics/latest/ph-scale-basics_en.html Using the simulation, report the pH reading and classify into acid or base Subtance pH Acid or Base Drain Cleaner Orange Juice Blood Battery Acid Spit Soda Pop (Dr Pepper) Hand Soap Vomit Chicken Soup Coffee Milk Coffee						
SITE #1 https://phet.colorado.edu/sims/html/ph-scale-basics/latest/ph-scale-basics_en.html Using the simulation, report the pH reading and classify into acid or base Subtance pH Acid or Base Drain Cleaner Juice Blood Battery Acid Spit Soda Pop (Dr Pepper) Hand Soap Chicken Soup Milk Milk	4. Iror	ı (II) Hydro	oxide			
Subtance pH Acid or Base Drain Cleaner Substance pH Acid or Battery Acid Spit Soda Pop (Dr Pepper) Hand Soap Chicken Soup Milk		Undei	rstanding	the pH scale	e	
Subtance pH Acid or Base Drain Cleaner Blood Spit Soda Pop (Dr Pepper) Hand Soap Chicken Soup Milk Milk	https://phe	t.colorado	.edu/sims/html/	ph-scale-basics/late	est/ph-scal	e-basics_en.html
Drain Cleaner Blood Battery Acid Spit Soda Pop (Dr Pepper) Hand Soap Chicken Soup Milk Milk	Using the	simulation	, report the pH ı	reading and classify	into acid o	or base
Cleaner Blood Battery Acid Spit Soda Pop (Dr Pepper) Hand Soap Chicken Soup Milk	Subtance	рН		Substance	рН	Acid or Base
Spit Soda Pop (Dr Pepper) Hand Soap Chicken Soup Milk				_		
Hand Soap Chicken Soup Milk (Dr Pepper) Vomit Coffee	Blood					
Soap Chicken Soup Milk	Spit			- 1		
Soup Milk	_			Vomit		
	_			Coffee		
5. How do you neutralize an acid? How do you neutralize a base?	Milk					
	5. How do you n	eutralize a	an acid? How	do you neutralize a	a base?	

1. SITE#2 <u>www.harcourtschool.com/activity/acids</u> By clicking on each one of the test tubes complete the chart below

Test Tube	Litmus paper color	рН	Acid or base?	Substance
#1				
#2				
#3				
#4				
#5				

♦ Part 4: pH Calculations NOTES

pH Calculations Video

* BESURE TO TAKE NOTES AS YOU GO

♦Part 5: ASSESSEMENTS

pH Scale Quiz

pH Calculation Quiz