## **ACIDS AND BASES WEBQUEST**

### **♦** Part 1: Acids and Bases Introduction:

Go to the <a href="http://www.chem4kids.com/files/react\_acidbase.html">http://www.chem4kids.com/files/react\_acidbase.html</a> and read about acids and bases.

1. Define an acid?		
2. Define a base?		
2 How do scientists measur	a the strangth of soids	s and bases? Describe this scale
3. How do scientists measur	e the strength of acids	s and bases? Describe this scale.
then watch the video and	answer the questions	and feel of acids and bases (and provided in this link. hapter/properties-of-acids-and-
Properties of Acids	Neutral	Properties of Bases

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

Examples of Acids	Examples of Bases

# Part 2: Acid and Base Notes <a href="http://www.visionlearning.com/library/module\_viewer.php?c3=&mid=58&l">http://www.visionlearning.com/library/module\_viewer.php?c3=&mid=58&l</a>

1.	The word acid comes from the Latin word	meaning
2.	Boyle stated that acids taste, and,	re corrosive to
	, change the color of litmus to	o, and
	become less acidic when mixed with	<u>.</u>
3.	He described bases as feeling	, changing litmus to
	the color, and becoming less basic w	hen mixed with an
	·	
4.	About 200 years later, Arrhenius proposed that water	can dissolve many
	compounds by separating them into their individual _	

5.	He suggested that acids contain	and can c	lissolve in water to
	release		
6.	Bases dissolve in water to release _		ions into the
	solution.		
	http://www.chem4kids.com/files/read	ct_acidbase.html	
1.	Every liquid has &	traits	can be both
	an acid and a base, depending on ho	ow you look at it.	
	a. It can be considered an acid in	some reactions and a	base in others.
	Water can even react with itse	elf to form acids and b	ases.
2.	Most of the time, the positive and ne	gative in	distilled water are
	in equal amounts and cancel each o	ther out.	
3.	Most water you drink from the	has other ions	in it.
4.	Those special ions in solution make	something acidic or b	oasic.
5.	In your body there are small compou	unds called	6. The name
	tells you those are acids. In fruits the	ere is something calle	d
7.	A chemist named	came up witl	h a way to define
	acids and bases in 1887.		
8.	He saw that when you put molecules	s into water, sometime	s they break down
	and release an	·	
9.	At other times, you find the release of	of an	
10	).When a hydrogen ion is released, the	e solution becomes	·
	When a hydroxide ion is released, th	ne solution becomes _	

## **♦** Part 3: Understanding the pH scale

• SITE #1

https://phet.colorado.edu/sims/html/ph-scale-basics/latest/ph-scale-basics\_en.html

1. Using the simulation, report the pH reading and classify into acid or base

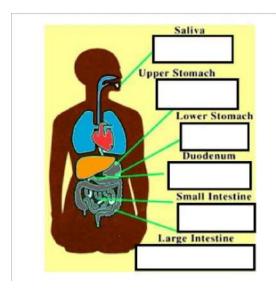
Subtance	рН	Acid or Base	Substance	рН	Acid or Base
Drain Cleaner			Orange Juice		
Blood			Battery Acid		
Spit			Soda Pop (Dr Pepper)		
Hand Soap			Vomit		
Chicken Soup			Coffee		
Milk					

• SITE#2 www.harcourtschool.com/activity/acid s

2. 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				

• SITE #3 <a href="https://www.quora.com/What-are-the-pH-of-different-organ">https://www.quora.com/What-are-the-pH-of-different-organ</a> s Track the pH as you travel through the digestive system.



SALIVA =	
UPPER STOMACH =	
LOWER STOMACH =	
DUODENUM =	
SMALL INTESTINE =	
LARGE INTESTINE =	

#### **♦** Part 4: Acid Base Review

Review this website make any adjustments in your answers above

http://chemistry.about.com/library/weekly/bl060603a.htm

#### **♦**Part 5: Assessments

• Use the links in Google Classroom to complete the assessments

https://quizizz.com/admin/quiz/5cb7e6c66ac815001aa6b813