1. http://www.visionlearning.com/library/module_viewer.php?c3=\&mid=58\&l=

The word acid comes from the Latin word $\qquad$ meaning
$\qquad$
Boyle stated that acids taste $\qquad$ , are corrosive to
$\qquad$ , change the color of litmus to $\qquad$ ,and become less acidic when mixed with $\qquad$ . He described bases as feeling $\qquad$ , changing litmus to the color $\qquad$ , and becoming less basic when mixed with an $\qquad$ .

About 200 years later, Arrhenius proposed that water can dissolve many compounds by separating them into their individual $\qquad$ . He suggested that acids contain $\qquad$ and can dissolve in water to release $\qquad$ .
Bases dissolve in water to release $\qquad$ ions into the solution.
2. http://www.chem4kids.com/files/react acidbase.html

Every liquid has $\qquad$ \& $\qquad$ traits. $\qquad$ can be both an acid and a base, depending on how you look at it. 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.

Most of the time, the positive and negative $\qquad$ in distilled water are in equal amounts and cancel each other out. Most water you drink from the
$\qquad$ has other ions in it. Those special ions in solution make something acidic or basic. In your body there are small compounds called $\qquad$ The name tells you those are acids. In fruits there is something called $\qquad$ .

A chemist named $\qquad$ came up with a way to define acids and bases in 1887. He saw that when you put molecules into water, sometimes they break down and release an $\qquad$ . At other times, you find the release of an $\qquad$ When a hydrogen ion is released, the solution becomes $\qquad$ . When a hydroxide ion is released, the solution becomes
$\qquad$ .

## 3. $\underline{\text { http://chemistry.about.com/od/acidsbases/a/acidbaseformula.htm }}$

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 $\qquad$
Changes litmus from blue to $\qquad$ .
Solutions are $\qquad$ (conduct electricity).
React with bases to form $\qquad$ $+$ $\qquad$ ـ.
Neutralization
$\square$ Create $\qquad$ gas when reacting with an active metal.
$\square$ Five (5) Common acids (scroll down):

Properties of Bases
Tastes $\qquad$ .
Feels $\qquad$ .
Don't change the color of $\qquad$ .
Solutions are $\qquad$ (conduct electricity).
React with acids to form $\qquad$ $+$ $\qquad$ .

## Neutralization

Four (4) Common Bases:
5. http://chemistry.about.com/od/acidsbases/a/phtable.htm and http://www.visionlearning.com/library/module_viewer.php?c3=\&mid=58\&1
Scroll down on the site above until you get to the pH scale
Using the sites above, answer the questions below:
A. pH range of acids $\qquad$
B. pH of a neutral substance $\qquad$
C. pH of a basic (alkaline) substance $\qquad$
Use information from the sites above and list the following substances according to pH . The lowest pH should be listed first and the highest base listed last. HCl and NaOH are given as examples.

Substances:

| 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 | 14 NaOH |
| Drano |  |

Pure was
Ammonia
Lime (Calcium Hydroxide)
Milk
HCl
Vinegar
Baking Soda
NaOH
Human Blood
Lemon juice
Battery Acid
Milk of Magnesia
Rain water
Egg whites
Drano
6. http://chemistry.about.com/library/weekly/blacidquiz.htm

Take the quiz.
Place score here $\qquad$ .
7. http://chemistry.about.com/library/weekly/bl060603a.htm

Take the quiz.
Place score here $\qquad$ .

