Introduction to Acids & Bases: A WebQuest

| | s from the Latin word | meaning |
|--|--------------------------------------|--------------------------|
| Boyle stated that acid | ds taste, are | corrosive to |
| | , change the color of litmus to _ | ,and |
| | hen mixed with | |
| He described bases a | s feeling | , changing litmus to the |
| color | , and becoming less basic when mi | xed with an |
| | r, Arrhenius proposed that water can | |
| | nto their individual | |
| contain | and can dissolve in water to relea | use |
| Bases dissolve in wa | ter to release | ions into the solution |
| 2. http://www.chem | 4kids.com/files/react_acidbase.html | |
| Every liquid has | & traits. One | e exception might be |
| , i | It is just water. However | r, theions |
| and | ions cancel each other out. | |
| Hydrofluoric Acid- Hydrochloric Acid- Hydrosulfuric Acid- Nitric Acid- Sulfuric Acid- Acetic Acid- Boric Acid- | | |
| Give the formula for Sodium Hydroxide- Potassium Hydroxide- Calcium Hydroxide- Iron (II) Hydroxide- | - | |
| | about.com/od/acidsbases/a/acidsbases | sterms.htm |
| Scroll down to Prope | | |
| • | ing sentences for Acids | |
| Tastes | | |
| Changes litmus from | Live to | |

| | (conduct electricity). |
|---|---|
| | + |
| 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 o | f . |
| Solutions are | (conduct electricity). |
| React with acids to form | + |
| Neutralization | |
| Four (4) Common Bases | : |
| | |
| | at.com/od/acidsbases/a/phtable.htm and |
| - · · · · · · · · · · · · · · · · · · · | om/library/module_viewer.php?c3=∣=58&l |
| - | e until you get to the pH scale |
| | |
| Using the sites above, answe | er the questions below: |
| A. pH range of acids | <u> </u> |
| - - | |
| B. pH of a neutral subst | ance |
| B. pH of a neutral subst | ance ne) substance |
| B. pH of a neutral substC. pH of a basic (alkalir | ance |
| B. pH of a neutral subst C. pH of a basic (alkaling Jse information from the sit | ance ne) substance |
| B. pH of a neutral subst C. pH of a basic (alkaling Jse information from the sit | ance ne) substance es above and list the following substances according to pH |
| B. pH of a neutral subst C. pH of a basic (alkaling Use information from the sit The lowest pH should be list | ance ne) substance es above and list the following substances according to pH |
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| 6. <u>htt</u> | p://chemistry.about.com/library/weekly/blacidquiz.htm |
|---------------|--|
| Take the q | uiz. e here |
| 7. <u>htt</u> | p://chemistry.about.com/library/weekly/bl060603a.htm |
| | he quiz. score here |
| | to http://www.wordiq.com/definition/Valence_electron The information at this site, write a definition for valence ron. |
| | sit the following site to answer the questions below; //dl.clackamas.cc.or.us/ch104-06/valence_electrons.htm |
| (a) | Do valence electrons show a repeating or periodic pattern? Explain. |
| (b) | How many valence electrons does each of the following elements have? Carbon, oxygen, nitrogen, fluorine, neon, and sodium. |
| (c) | What is a quick way to determine the valence electrons for an element? |

Unit 4 Covalent Bonding Webquest Activity #1- Introduction to Covalent Bonding

| Open Chemical Bonding. Scroll down | n to the heading "Covalent Bonding." |
|---|--|
| 1. As opposed to | bonding in which a complete transfer |
| of electrons | |
| occurs, bor | nding occurs when two or more elements |
| | valent bonding occurs because the atoms in |
| the compound | |
| have a similar tendency for electrons | (generally to |
| electrons). This | |
| most commonly occurs when two | bond together. |
| Because both of the | |
| nonmetals will want to | electrons, the elements involved |
| will share | |
| electrons in an effort to | |
| How many valence electrons are in | , , |
| • | hydrogen need to have a full first shell? |
| How does the hydrogen atom "pick | • |
| What compound does hydrogen for | |
| How do hydrogen atoms make a c | |
| | ling between hydrogen atoms. Describe or |
| draw what you | |
| see. | |