**9 Build Chemistry - Quick Quiz 4**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**How much do you know and understand? Answer each question to the best of your ability.**

1. Multiple choice - In a word equation for a chemical reaction such as:

A + B → C + D

The substances on the right-hand side of the arrow (C + D) are called:

1. neutrons
2. products
3. reactants
4. neutral
5. Short Answer - You undertake an activity where you combine zinc metal with sulfuric acid forming zinc sulfate and hydrogen gas. The following word equation shows this reaction.

zinc metal + sulfuric acid → zinc sulfate + hydrogen gas

* 1. Label the **reactants** on the word equation above
  2. Label the **products** on the word equation above
  3. What does the arrow in the word equation mean?

1. Short Answer - A reaction between sulfur and oxygen occurs to form sulfur dioxide.
   1. Complete the table to show the reactants and products for this reaction.

|  |  |
| --- | --- |
| **Reactants** | **Products** |
|  |  |

* 1. Write a word equation for this reaction

|  |  |  |
| --- | --- | --- |
|  |  |  |

1. Multiple choice - A few drops of universal indicator were placed in a liquid and the liquid turned blue. We may conclude that the liquid was:
   1. Neutral
   2. A weak acid
   3. A strong acid
   4. A base
2. Multiple choice - Which of these is a property of an acid?
   1. They taste sour
   2. They feel slippery
   3. They are in many cleaning products
   4. They taste bitter
3. Multiple choice - David comes home from holidays to find the pool looking very sick

and unhealthy. He phones up the local pool shop and the friendly attendant

asks him to check the pH of the water. Which of the following is David most

likely to use to check the pH?

1. An acid
2. A base
3. Sodium chloride
4. An indicator
5. Fill in the gaps in the following sentences using words from the box below

|  |  |  |
| --- | --- | --- |
| more than | sweet | green |
| less than | sour | blue |
| equal to | bitter | red |

* 1. Acids have a pH \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ seven.
  2. Bases have a pH \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ seven.
  3. Acids have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ taste.
  4. Bases have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ taste.
  5. If litmus paper was placed in an acid its colour would be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
  6. If universal indicator was placed in water its colour would be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.