



The New English Private School (NEPS)

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Name _____ 3rd Quarter Date 2020 Subject: Chemistry
Review Worksheet Grade-9__ Teacher's Name Mr. Demeke

I. Give appropriate answer for the following questions.

1. Define the following terms.

A. Chemical reactions

B. Electrovalent
bond. _____

C. Covalent bond

D. Non-bonding
electrons. _____

E Inter molecular
force _____

F. Hydrogen
bonding _____

2. List the types of chemical reactions.

A. _____

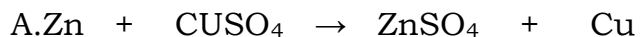
B. _____

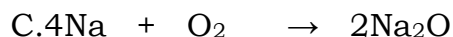
C. _____

3. Balance the following Chemical reactions.



4. Write the types of chemical reactions for the following reactions.





5. Write some properties of Exothermic and endothermic reactions.

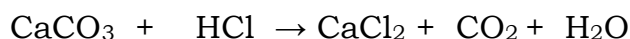
6. How many grams of copper are formed when 130gms of Zinc reacts with Copper Sulphate?

7. How many grams of copper are formed when 130gms of Zinc reacts with Copper Sulphate?(Use mole method)

8. Calculate the volume of oxygen produced at decomposition of 10 moles of KNO_3 at STP ? $2\text{KNO}_3 \rightarrow 2\text{KNO}_2 + \text{O}_2$

9. What mass of Aluminum would be completely oxidized by 22.4L of oxygen to produce Al_2O_3 at STP?

10. If 40g of CaCO_3 and 50g of HCl are mixed according to the reaction,



a. Write the balanced chemical equation.

b. Which substance is a limiting reactant?

c. What mass of CO_2 is formed?

d. . What mass of H_2O is formed?

e. Which one is a limiting reactant?

f. How many grams of the reactant remains un reacted?

11. Define theoretical, actual and percentage yields in a given chemical reaction.

12. When 40g of SO_2 reacts with Oxygen, 46g of SO_3 is formed.

A. Find the actual yields of a reaction.

B. What is the percentage yields.

13. Find the oxidation number of

A. Mn in KMnO_4

B. P in $\text{Ca}_3(\text{PO}_4)_2$

C. Cr in $\text{Cr}_2\text{O}_7^{2-}$

14. In the reaction $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$, identify the substance

A. Oxidized

B. Reduced

C. Oxidizing agent

D. Reducing agent

15. List the factors that affect the rate of Chemical reactions.

A. _____

B. _____

C. _____

D. _____

E. _____

Parent/Guardian's signature _____

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