NAME OF TEACHER: AYANDIRAN GBENGA

SUBJECT: CHEMISTRY

CLASS: SS ONE

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| WEEK | TOPIC | CONTENTT | OBJECTIVES | PRACTICE QUESTIONS |
| 1 | Element, Compound and mixture | Definitions, examples, differences between mixture And compounds | The students should be able to  a. define the terms  b. give examples  c. differentiate between compounds and mixtures | 1. Define an element  2. Give two examples of mixtures  3. State two differences between mixtures and compounds |
| 2 | Standard Techniques for separation  Of mixture | separation Filtration, evaporation, crystallization, decantation sublimation, distillation, precipitation ,chromatography  Separating funnel, Test for purity | a. list the separation techniques  b. describe the principle of each technique  c. state the criteria for test for purity | 1. List 8 separation techniques  2. How would you separate the mixture of table salt and sand?  3. What is sublimation? |
| 3 | Concept of atoms and molecules | Dalton atomic theory and modification, the constituents of Atoms, atomic structure by Rutherford. Atomic number,  Mass number , isotopy ,relative atomic number based on carbon 12, calculations on molecular mass | a. state Dalton’s atomic theory  b. describe atomic structure  c. calculate molecular mass | 1. State Dalton’s atomic theory and its modification  2. Describe the Rutherford structure of an atom  3. Calculate the mass number of NaCl, NaOH, CaCl2  Hence, find the percentage of sodium in its compounds above |
| 4 | Chemical symbols formulae and Equations | Chemical symbols, empirical and molecular formulae balancing of chemical equations | a. state the symbols of elements  b. balance chemical equations | 1. List the first 20 elements with their symbols  2. Write an equation between oxygen and hydrogen to form water  3. Calculate the empirical formula of  a. 15.8%Al, 28.1%S, 56.1%O |