# Form 3 Chemistry
# Scheme of Work
# 2017/ 2018 Term III

| Week | Topic/ Objectives | Activities |
|---|---|---|
| 1 | Return papers and clarify any misconceptions | Teac her will address any problems encountered by students on any topics. |
| 2-3 | **Reactivity Series**<br>-Rxns of metals with: i) $O_2$<br>ii) $H_2O_{(l)}$<br>iii) $H_2O_{(g)}$<br>iv) Acids<br>-**Displacement rxns** between metal & i) Metal oxides ii) metal solutions | Teachers will give the general rxns for each, an example and students will write balanced chemical rxns which would include metals from groups I, II & III.<br><br>Students are expected to predict if rxns are feasible, write balanced chemical equations and give expected observations (eg. A beaker with $CuSO_{4(aq)}$ and a strip of Mg. |
| 4 | **Moles**<br>- Definition<br>- Use the formulae:<br>No. of Moles = $\frac{\text{Mass}}{\text{Molar Mass}}$<br><br>No. of Moles = $\frac{\text{Volume of gas}}{22.4 \text{ or } 24 \text{ dm}_3}$<br>(for gases at stp or rtp respectively) | Teachers will do calculations with students giving questions where they find for mass or volume of gas making either of these the subject of the formula |
| 5 | **Carbon and Nitrogen cycles**<br>-Processes on the cycles and pollution related to these cycles.<br>- Pollution Sources, effects and solutions<br>eg. Acid rain, eutrophication, global warming | The cycles explained or if time is available presentations by groups and marks awarded |

Teaching Time reduced resulting from NCSE and Internal examinations