Form 4 Term III Plan 2025/2026

Week	Topic	Objectives
1	**Oxidation-Reduction Reactions**	Give examples of oxidation and reduction reaction (action of bleach, browning of cut fruit and rusting). Define oxidation and reduction. Write half equations for oxidation and reduction.
2	**Oxidation-Reduction Reactions**	Review Half equations. Define oxidation number or state from formulae. Give the rules to determine oxidation number. Determine oxidation number of underlined compounds. *Oxidation Number Classwork*
3	**Oxidation-Reduction Reactions**	Use oxidation numbers to determine redox reactions in equations. Oxidizing and reducing agents. Common oxidizing and reducing agents.
4	**Oxidation-Reactions**	*Oxidation-reduction reactions Exercise* *Oxidation and Reduction Lab 1*
5	**Water** **Green Chemistry**	Discuss the unique properties of water. State different types of water pollution. Differentiate between type of water hardness. Explain different treatment of water for domestic use. Define Green Chemistry. Outline 12 principles of Green Chemistry. *Oxidation and Reduction Lab 2*
6	**Water** **Green Chemistry**	*Water or Green Chemistry Exercise.* *Water Plan and Design*
7	**Non-metals and Metals**	Describe the chemical properties of metals including action of oxygen, water, dilute hydrochloric acid and dilute sulfuric acid. Describe the reactions of metallic oxides, hydroxides, nitrates and carbonates. Describe the extraction of aluminum and iron. *Disappearing Cross Lab*
8	**Revision**	*Rates Temperature Lab*