



**CHEMISTRY SCHEME
SS3**

SN	TOPICS
1.	Qualitative and Quantitative analysis – Acid-base titrations, redox titrations, test for oxidants and reductants
2.	Qualitative and Quantitative analysis:- Identification of Fe^{2+} , NH_4^{2+} , Fe^{3+} , Cu^{2+} , Pb^{2+} , chlorides, nitrates, sulphates, sulphides, bicarbonates, carbonates, sulphites
3.	Qualitative and quantitative analysis:- Test for hydrogen, NH_3 , HCL , NO_3 , Oxygen, CO_2 , CL_2 . Identification of fats and oils, simple sugars and protein, starch.
4.	Petroleum:- Origin and composition of crude oil, Nigerian and World oil reserves, exploration and drilling of crude oil, fractional distillation and major products, location of Nigerian refineries, cracking and reforming, petrochemicals, quality of petrol and natural gas
5.	Metals and their compounds: chemical characteristics principle of extraction (electrolysis, reduction of oxides, chlorides and sulphates), properties compounds and uses of alkali metals (sodium)
6.	Metals and their compounds:- Extraction, properties, compounds and uses of ca
7.	Metals and their compounds:- Extraction, properties, compounds and uses of Al.

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8.	Metals and their compounds:- Extraction, properties and uses of tin
9.	Metal and their compounds:- Properties of the first transition series, extraction, uses of copper and iron. Rusting of iron and methods of prevention
10.	Ethical, legal and social issues:- chemical waste, industrial pollutants, role of governments in preventing chemical degradation, legislation, setting of minimum standard, enforcement of standards and legislation.
11.	Fats and oils:- sources, physical and chemical properties, reactions of fats and oils.
12.	Soap and detergents:- Preparation, structure, mode of action, action of soap as emulsifying agent, differences between soaps and detergents
13.	Giant molecules:- Sources and classification of sugars (monosacchandes,

	disacchandes polysacchandes, reducing and non-reducing sugars)hydrolysis of sucrose and starch test for sugar and starch, uses of starch and glucose, sources, structure and properties of protein, test for and uses of proteins
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