

ST. MARY'S COLLEGE**FORM 5****CHEMISTRY****Course Outline****Term 1**

Proposed Date/Week	Section/Unit	Topic	Modules
1	B/1	Sources of hydrocarbon compounds	<ul style="list-style-type: none">- Natural sources- Uses of petroleum fractions- Cracking
2 - 3	B/2	Organic chemistry – An introduction	<ul style="list-style-type: none">- Carbon bonding- Formulae of organic compounds- Homologous series- Naming organic compounds- Structural isomerism
4 – 6	B/3	Reactions of carbon compounds	<ul style="list-style-type: none">- Reactions of alkanes- Reactions of alkenes- Properties and uses of hydrocarbons- Reactions of ethanol- Fermentation- Reactions of ethanoic acid- Properties of alcohols and acids- Hydrolysis of esters- Soapy and soapless detergents* Saturated vs unsaturated compounds* Mineral vs organic acids* Classification of oils
7 – 8	B/4	Polymers	<ul style="list-style-type: none">- Definition- Addition and condensation polymerization- Uses of polymers
9 – 10	C/1	Characteristics of metals	<ul style="list-style-type: none">- Physical and chemical properties of metals- Reactions of metallic oxides, hydroxides, nitrates and carbonates
11 – 12	C/2	Reactivity and extraction of metals	<ul style="list-style-type: none">- Reactivity of metals and their order- Extraction of Aluminium and iron* Reactions of metals with air, water, acid
13	-	Revision	<ul style="list-style-type: none">- Revision
14 - 15	-	Examinations	<ul style="list-style-type: none">- Examinations

Term 2

Proposed Date/Week	Section/Unit	Topic	Modules
1	C/3	Uses of metals	- Alloys and their uses
2	C/4	Impact of metals on living systems and the environment	- Corrosion in iron and aluminium - Importance of metals in living systems and the environment - Harmful effects of metals on living systems and the environment
3 - 5	C/5	Non-metals	- Physical and chemical properties - Laboratory preparation and uses of gases - Uses of some non-metals and their compounds - Harmful effects of non-metals on living systems and the environment - Properties of water in living systems - Solvent properties of water - Treatment of water - Green Chemistry
6 - 7	C/6	Qualitative analysis	- Identifying gases * To identify cations in solution * To identify anions in solution * Analysis of sample J
8	-	Revision	- Revision
9 - 11	-	Mock examinations	- Mock examinations

* Proposed laboratory exercises. An investigative project would be done in Form 5.