

SCHEME OF WORK 2020-2021

DEPARTMENT: SCIENCE

SUBJECT: CHEMISTRY

TERM: 1

CLASS: 5S

TEACHER: AMANDA HOSEIN-BOODHOO

WEEK	LEARNING OUTCOMES
1	Students should be able to: Introduction to organic chemistry. -List general characteristics of homologous series. - Write formulae to represent simple organic compounds;
2	-Write general and molecular formula for members of a given homologous series. -Name branched and unbranched alkane, alkene, alcohol and carboxylic acid
3	-deduce the homologous series given the fully displayed and condensed formulae of compounds -write fully displayed structures and names of branched and unbranched alkanes and unbranched alkenes, alcohols, and alkanolic acid -write the fully displayed structures of isomers given their molecular formulae.
4	Reactions of alkanes -Combustion -Halogenation -uses
5	Reaction of alkenes -combustion -addition reactions (hydrogenation, halogenation, hydration) -Uses

6	Laboratory practical Distinguish between alkane and alkene
7	Alcohols -Properties -Reactions: 1. combustion 2. With sodium 3. Dehydration 4. Oxidation -uses -Preparation
8	Practical activity Introduction of reaction of carboxylic acid
9	Carboxylic Acids -Reactions; 1. With metals 2. Metal oxide 3. Carbonates 4. Alcohols - State uses
10	Practical activity Esters –Hydrolysis Soap and Soapless detergents
11	Practical activity- manufacture of soap Macromolecules -Addition polymerisation

12	Condensation polymerization -distinguish between addition and condensation as reactions in the formation of polymers
13	-state at least one use of each of the following types of polymers. Polyalkene Polyamide Polyester Polysaccharide.