	TUTOR: DARLINGTON @ DATATECH
SUBJECT	PHYSICAL SCIENCES
TOPIC	ORGANIC CHEMISTRY

## **CHAPTER SUMMARY**

Organic chemistry is the study of carbon compounds, which are compounds that contain carbon atoms. These carbon compounds have complex shapes and forms due to the ability of a carbon to form long chains of itself called Catenation. Catenation also allows for multiple bonds to form between carbon atoms which allows for the formation of ALKENES and ALKYNES.

LESSON VOCABULARY				
KEY TERM	DEFINITION	SOURCE	≡REF	
Homologous series	A series of organic compounds that can be described by the same general formulae.  It is a series of organic compounds when the member differs from the next with Argunds.	SCIENC	PAGE 15	
Functional group	A bond or anythin are group of atoms that determine the physical and chemical properties of a group of organic compounds.	N PHYSICAL GUIDELINES,	PAGE 16	
Saturated compounds	Compounds consisting only of single bonds between carbon atoms and other atoms.	AFRICA	PAGE 15	
Isomers	Molecules which have the same molecular formulae but different structural formulae.	SOUTH	PAGE 16	

## **LESSON EXAMPLES AND REFERALS**

## **ESTERIFICATION.**

- Esters are formed when there is an acid catalyzed condensation reaction between an alcohol and a carboxylic acid.
- The products of esterification are and ESTER and WATER
- Names end with suffix "oate"
- First name part is from the alkyl group formed from the alcohol.
- 14/●∪∟Second name part comes from the parent acid with *suffix "oic acid"* replaced by the suffix "oate"

## **LESSON OUTCOMES**

- LESSON QUESTIONS
   Understand the basic structure, reactions and usefulness of organic molecules.
- Understand the formation of new molecules through ADDITION, ELIMINATION and SUBSTITUTION reactions.

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