#### Topic 10.1: Organic chemistry - Fundamentals of organic chemistry

Organic chemistry focuses on the chemistry of compounds commissing carbon.

- Understanding: A homologous series is a series of compounds of the same family, with the same general formula, which differ from each other by a common structural unit.
  - . However, series of compound of the same family, with the same general formula, which differ by a common structural unit
    - Common structure unit: often CH<sub>2</sub> (methylene) group
    - Same family: has the same functional group.
    - Proportion: homologous sestes has similar physical and chemical properties.
- · Understanding: Structural formulas can be represented in full and condensed format.

	Full structural formula	Condensed structural formula	Skeletal structural formula
Enample	H H H H	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	
	н-с-с-с-с-н	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	
Description	Two-dissectional segue sentiations abovering all atomos, their relative pensitions and bounds	Two-distancesismal representations aboveling all atoms and their relative position	Two dissensional representation of a compound where out to cortex and and of line represent a carbon atom, and functional group is added

- . Under timeling: Structural isomers are compounds with the same molecular formula but different arrangements of atoms.
  - Streams revers compounds with same molecular formula with different arrangement of atoms.
    - Proportion: structure isomers have different chemical and physical properties (melting point, building point etc.)
- · Understanding: Functional groups are the reactive parts of molecules.
  - Functional property reactive parts of a molecule that is responsible for the molecule's chamical property.
    - Nicestry: the position of the function group is identified by the number of curbon to which it is attached.
- Understanding: Saturated compounds contain single bends only and unsaturated compounds contain double or triple bonds.
  - Summer of compositions operated compounds in which all the earliest custion bonds are single to a subsect.
  - Unanticated components; regardic compound in which there is at least one carbon-carbon bond that is double or triple or g. effects.
- . Under it and ing. Because is an aromatic, unsultarated by druc arbon.
  - Administration of the property of the structure.
  - Account is: afterwaterized by presence of became ring.
  - Demonstration and a second seco
    - Riggma (n) found in benzene: benzene contains six sp<sup>2</sup> hybridized carbon atoms bond to one other by sigma bonds.
    - Print bond in territory p-orbitals in earliess evenlap to from a continuous x bond above and below the plane of curtors.
- Applications and skills: Explanation of the trends in boiling points of members of a homologous series.

Nome Methane	Freezonda	Stepsement Formula (condensed)	Bushing point ("C)
Marchanter	CHa	CH	-164
Exhance	C.H.	CHCH.	-89
Programe	C.H.	CHCHCH	-42
Displante	C.H.	CHCHCHCH.	-0.5
Protune	Catter	CHCHCHCHCH	36
High latter	CH.	CHOLCHCHCHCH:	6/8

- Trend in builing posons; boiling points increases as the carbon chain increases by a common structural unit
  - Twinds artist from increasing intermolecular (doperaism forces) with increased chain lengths.
- Applications and shifts: Distinction between empirical, molecular and structural formulas.
  - Empirical formula: simplest ratio of atoms (of an element) in a molecule
  - Multiple for Executive actual number of atoms (of each element) in a molecule.
  - . Virginia of fermille; representation of the type of atom, and their position relative to one other

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