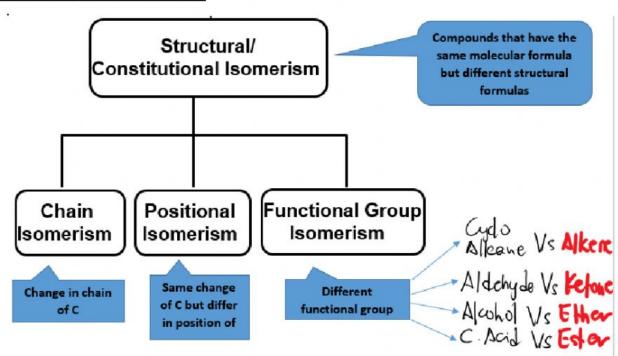
Exercise 1: Isomerism



The compounds below show the possible isomers of C₄H₁₀O.

Chych Chabon

Chachal Cha

Chachachoch (C)

Chy Chi Chy OH
(D) Chy

__ and _____ or (a) Select which isomers are chain isomers В ___ and ___

and

(b) Select which isomers are positional isomers.

___ and _____ or (c) Select which isomes are functional isomers. __ **b**__and_____or and ____

2. The compounds below show the possible isomers of $C_5H_{10}O_2$.

CH3CH2CH2CH2CH4

CH3 CH CH2 C-OH

CH3 (C)

CH3 CH2 CH2 C-OH

(E)

(D) O CH2 CH3

Change the position of the functional group but retain the C chain

- a) Select which isomers are chain isomers _____ and _____
- b) Select which isomers are positional isomers. _____and ____
- c) Select which isomes are functional isomers. _____ and _____ or

Functional group isomers:

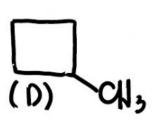
Compare different functional groups

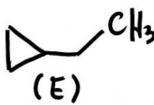
Any carboxylic acids vs
Any Ester

b	and	or
C	_ and	or
Δ	and	or
B	and	or
C	and	

3. The compounds below show the possible isomers of C₅H₁₀

CH3 CH2 C= C CH3 (c)





- d) Select which isomers are chain isomers

- e) Select which isomers are positional isomers. ___and ___
- f) Select which isomes are functional isomers.

Functional Group Isomers:

Always compare different functional groups

> **Any Cycloalkanes** Vs **Any Alkenes**

The selection			
B			
v	$_$ and $_$	 	or_

4. The compounds below show the possible isomers of C₄H₈O.

CH3 CH2 CH3 CH

CH C-H
CH3 0 (C)

CH3CH5CH3

CH3 C CH3 CH3

g) Select which isomers are chain isomers

_____ and _____

h) Select which isomes are functional isomers. _____ and _____ or

A and or

- **C** and ____ or
- **C**__and_____

There are no positional isomers for C₄H₈O???

CH3 CH2 CH2 CHO

Position for Carbonyl functional group for Aldehyde always be at the 1st Carbon

