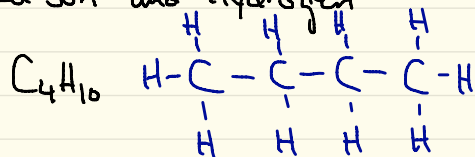


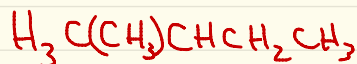
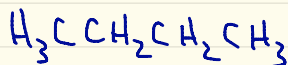
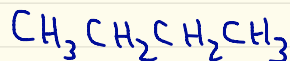
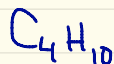
UNIT 12 - TOPIC 1
ORGANIC CHEMISTRY REVIEW

1) Draw Structural Formulas for Hydrocarbons

Carbon and Hydrogen (4 bonds to Carbon)

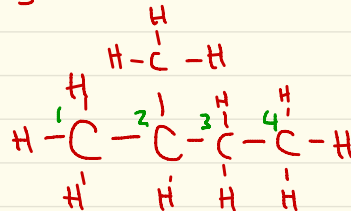
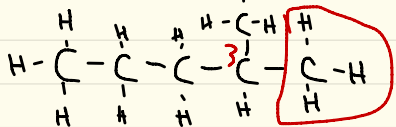


2) Write Condensed Formulas and Molecular Formulas of Hydrocarbons



3) Name hydrocarbons using IUPAC

(A) Find the longest chain

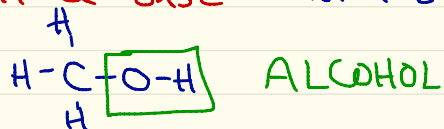


2-methylbutane

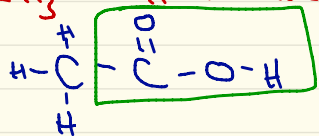
TOPIC 2

ORGANIC FUNCTIONAL GROUPS

Is CH_3OH a base? Not a base (METHANOL)

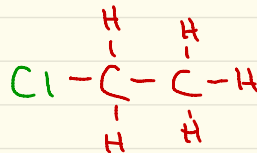


Is CH_3COOH a base?

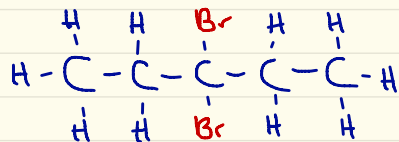


Vinegar (Acetic Acid)

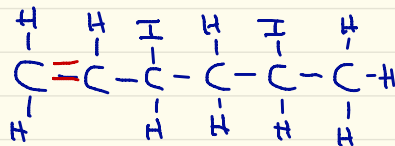
Draw the structure of 1-chloroethane

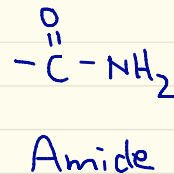
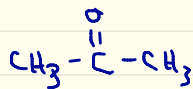
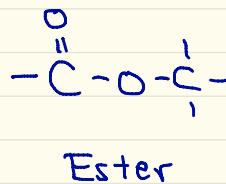
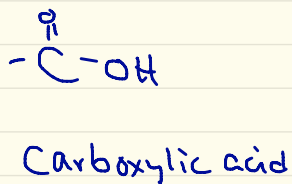
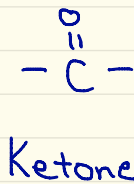
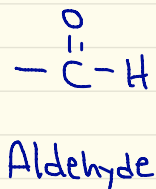
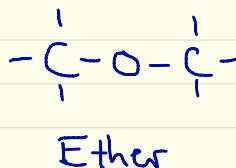
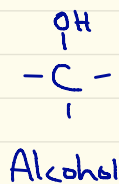
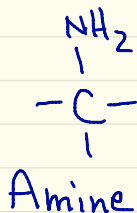
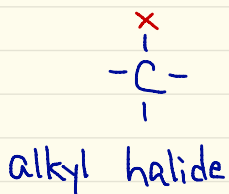
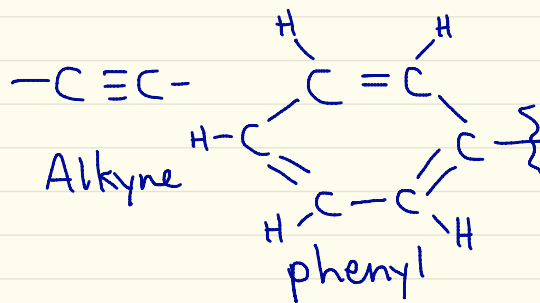
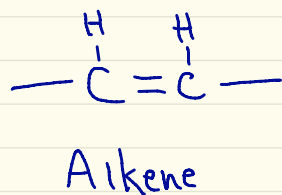
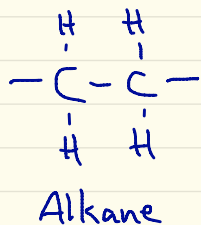


3,3-dibromopentane



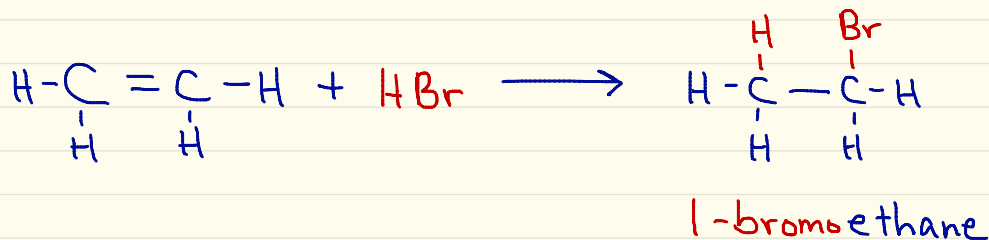
3,5-diiodo-1-hexene



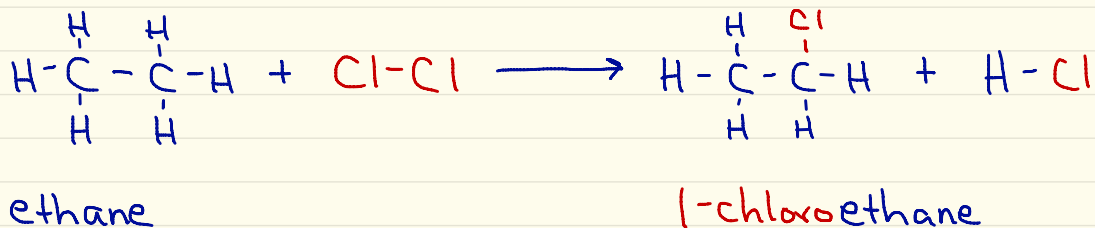


TOPIC 3 - ORGANIC REACTIONS

Addition: alkene or an alkyne

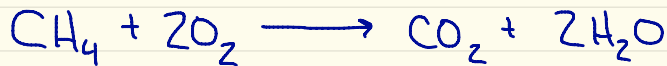


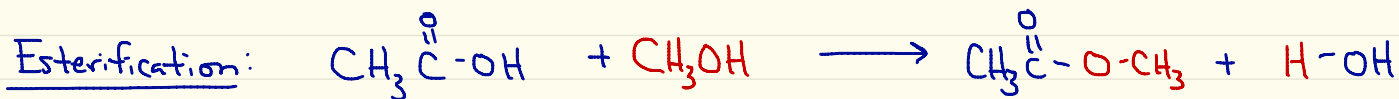
Substitution: Alkanes



Combustion: Can take place with ANY Alkane, Alkene, Alkyne

* Bio-fuel (Ethanol)





acetic acid

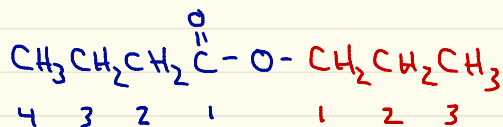
methanol

methyl ethanoate

* Sweet smelling (flavors/perfumes)

NAMING ESTERS

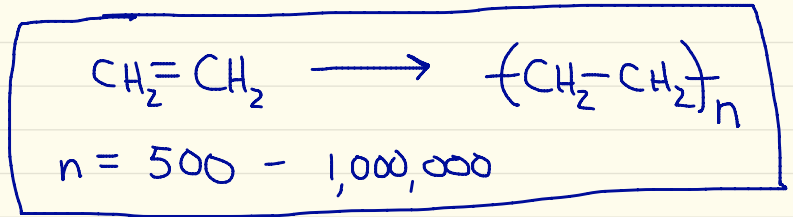
- name the alkyl group next to the OXYGEN
- name the carbon chain containing the carbon-oxygen double bond.



Propyl butanoate

POLYMERS

Poly \Rightarrow MANY
mer \Rightarrow UNIT



2 Types of POLYMERS

SYNTHETIC

polyethylene

polypropylene - Containers

polystyrene - STYROFOAM

polyurethane - pillows

polyvinyl chloride (PVC)

NATURAL POLYMERS

Polysaccharides (starch)

Cellulose (wood, cotton)

Proteins (poly amino acids)