Unit 1 - Organic Chemistry

- Characteristics of organic compounds
- Identifying and drawing isomers
- General formulas of alkanes, alkenes, alkynes, and cyclic compounds
- Sigma vs. Pi bonding
- Draw and name hydrocarbons that have alkyl substituents
- Aromatic Compounds
- Name and draw the following hydrocarbon derivatives:
 - ⇒Organic Halides
 - ⇒Alcohols
 - ⇒Ethers
 - ⇒Aldehydes
 - ⇒Ketones
 - ⇒Carboxylic Acids
 - ⇒Esters
 - Reactions

Reactions

- Cracking (break into pieces)
- Reforming (two small ——one big)
- Combustion (burned, common oxides)
- Addition (breaking a pi bond(s))
- Substitution (break a C-H bond and replace with halide)
- Elimination (adding a pi bond)
- Esterification (alcohol + carboxylic acid) (carboxylic acid + alcohol $\frac{-e}{}$ ster)

p. 719-720 #37-46, 49, 50, 54-56, 59-61, 63, 64

p. 757-758 #26-35, 38, 40, 43-45

Reactions Worksheet

SUBSTITUTION

ELIMINATION

methylbutane+ O2 -> carbon + water dioxide + vapour

C5+42 +802 -> 5002 + 6+20