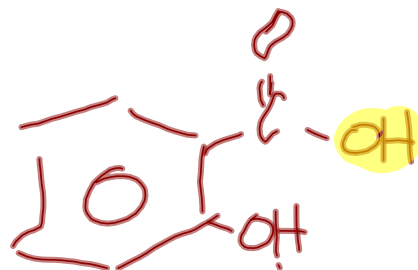
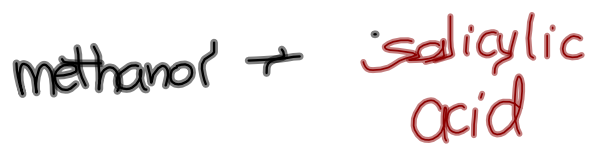


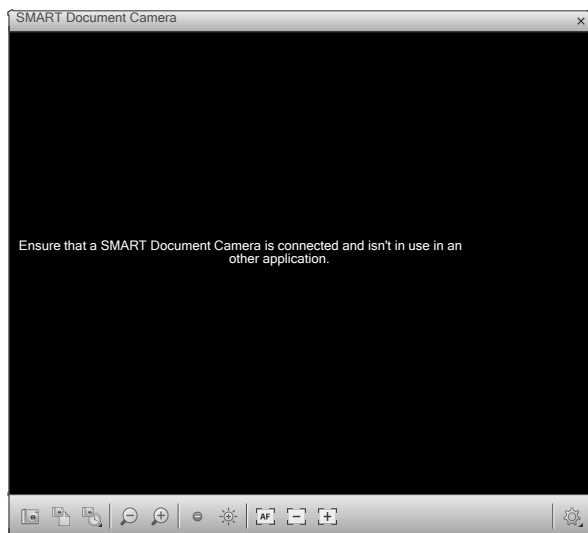
Lab



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

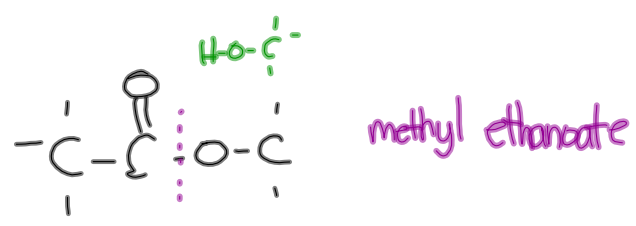
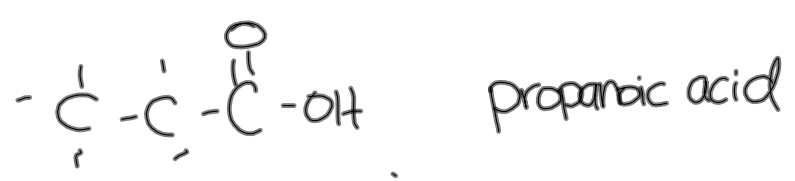
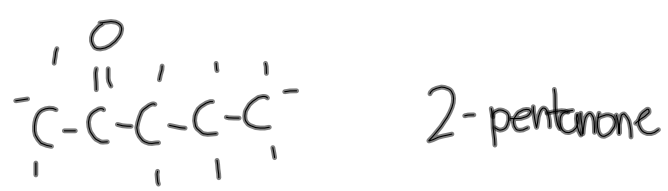
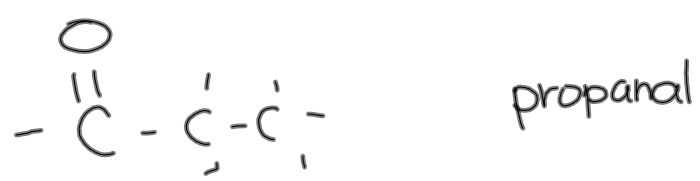
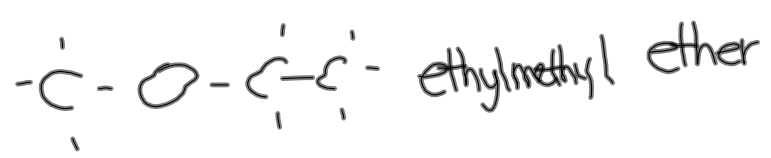


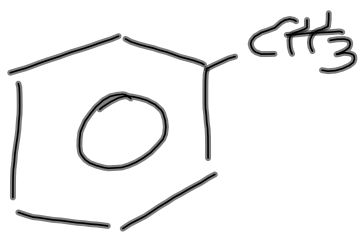
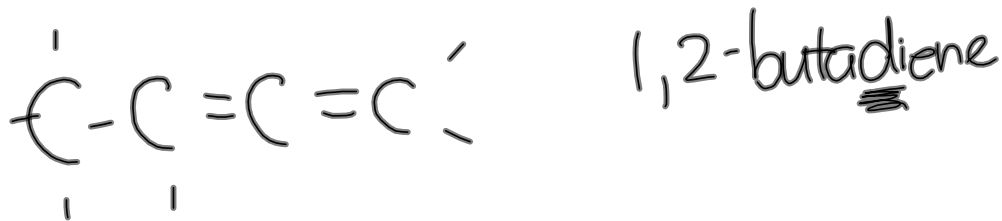


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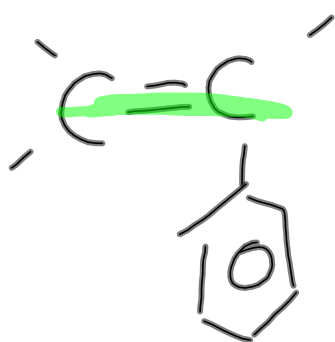
OH

1,1-ethane diol

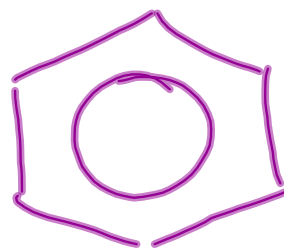
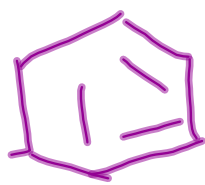


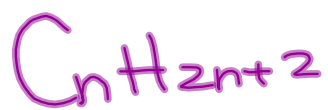


methylbenzene



phenylethene





triple bond

or

Cycloalkene

or

- diene

|

|

Reactions

- Cracking (*break into pieces*)
- Reforming (*two small \longrightarrow 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
(*carboxylic acid + alcohol \longrightarrow ester*)

Reactions Worksheet