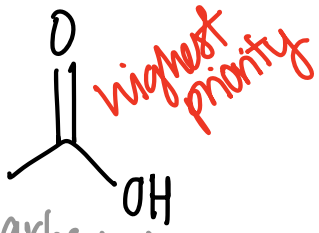
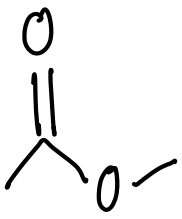
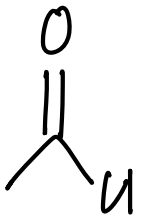


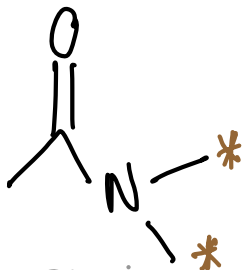
carboxylic acid



ester

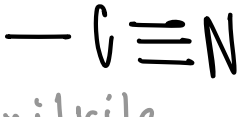


acid chloride

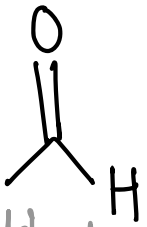


amide

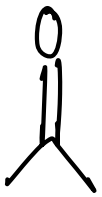
either H or R



nitrile



aldehyde



Ketone

alcohol

thiol

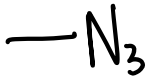
amine

either H or R

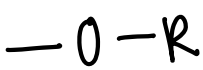
alkene

alkyne

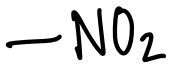
lowest priority



azido



alkoxy



nitro

Trans: same group, opposite sides

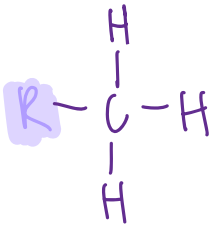
} of the double bond {

Cis: *sisters* same group, same sides

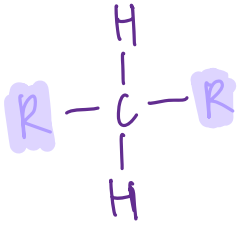
E: higher priority groups on different sides

Z: "zane = same" higher priority groups on the same side

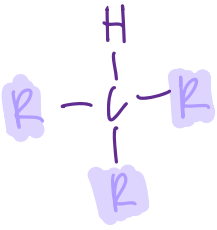
Primary (bonded to one other carbon)



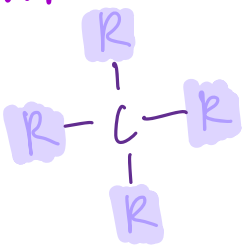
Secondary (bonded to two other carbons)



Tertiary (bonded to three other carbons)

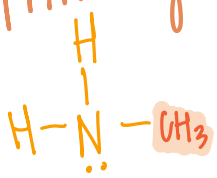


Quaternary (bonded to four other carbons)



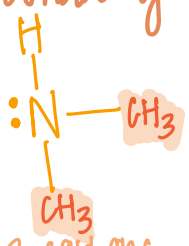
Amines

Primary



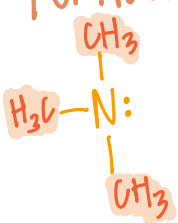
1 carbon (directly attached)

Secondary



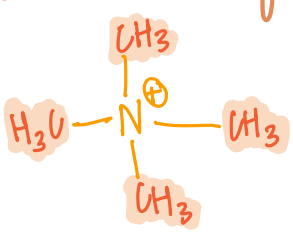
2 carbons

Tertiary



3 carbons

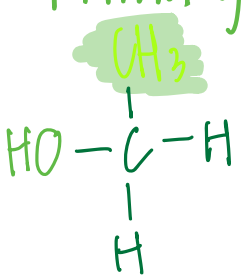
Quaternary



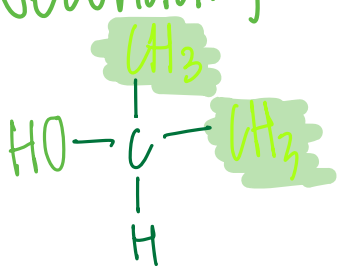
4 carbons

Alcohols

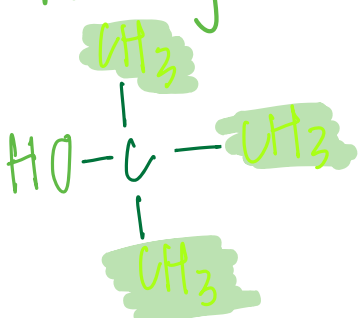
Primary



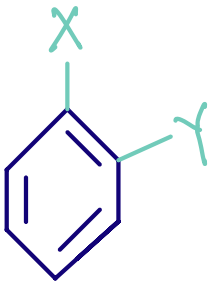
Secondary



Tertiary

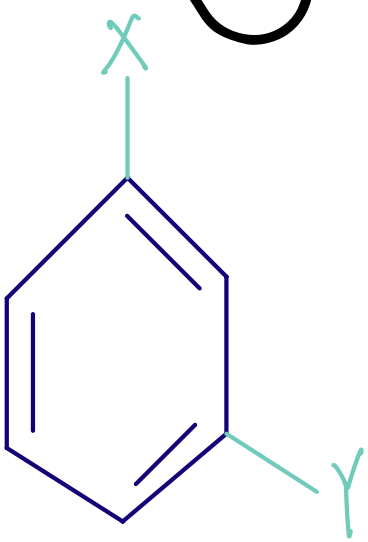


Aromatic Compounds



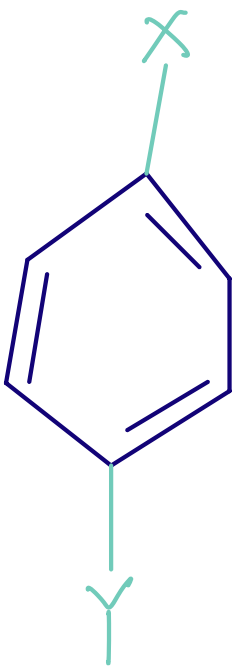
ortho

1,2



meta

1,3



para

1,4