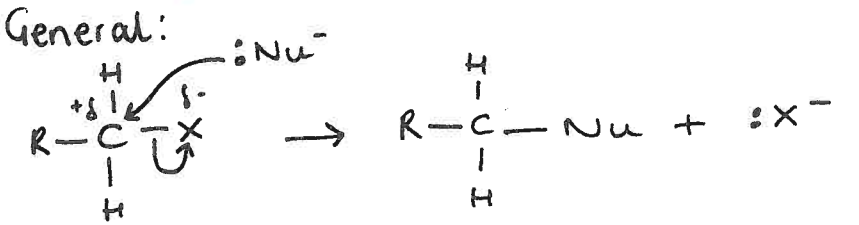
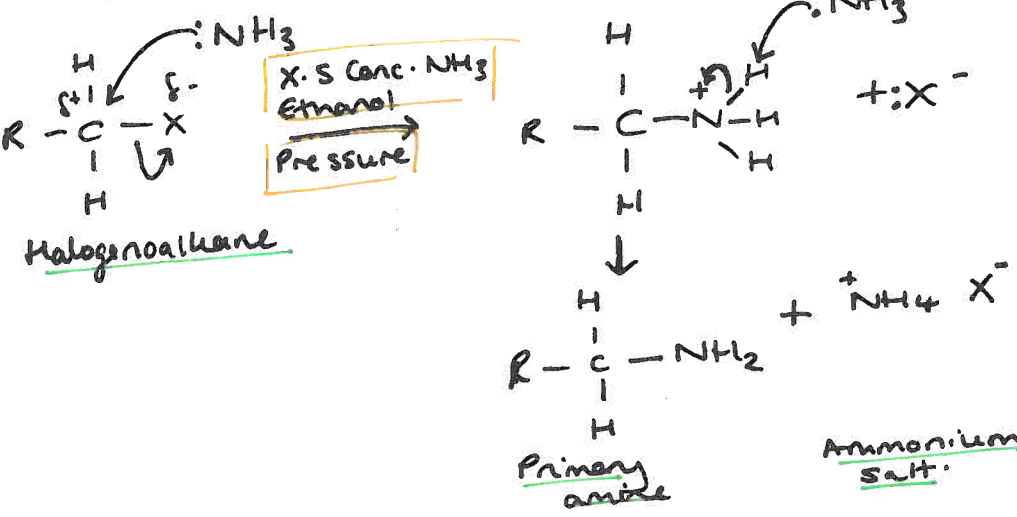
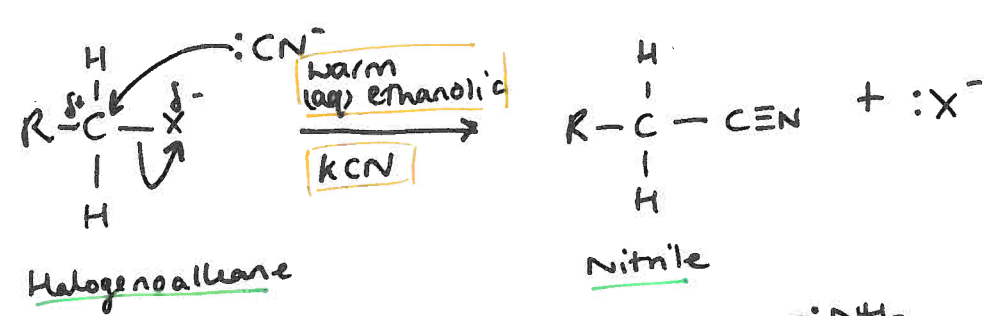
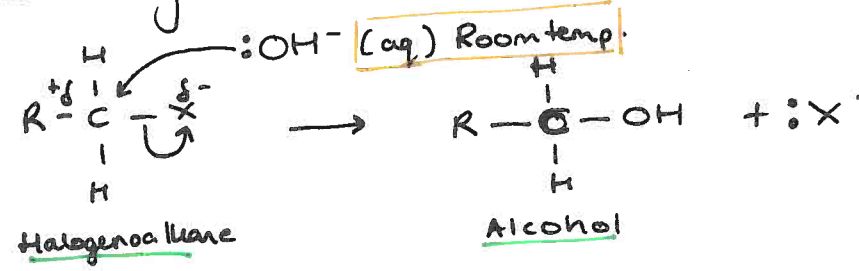


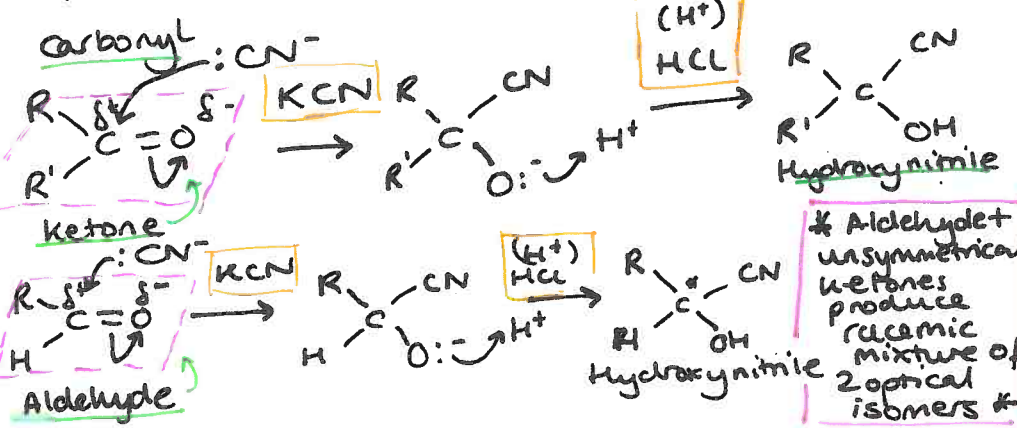
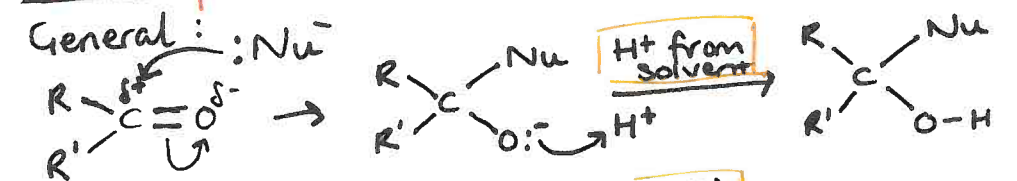
# Nucleophilic substitutions



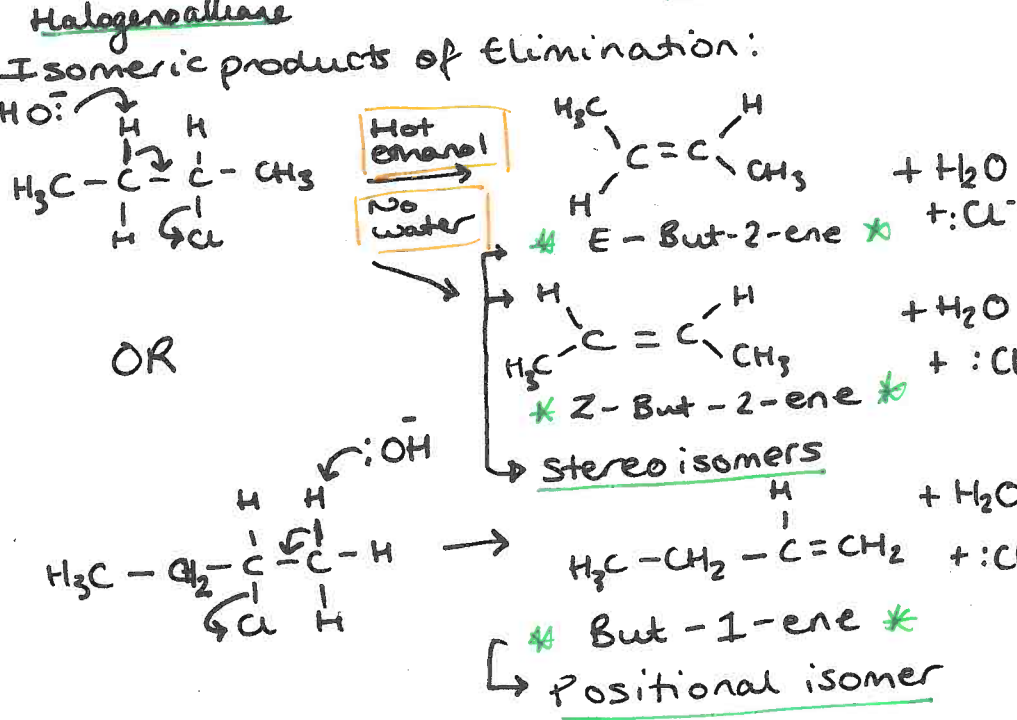
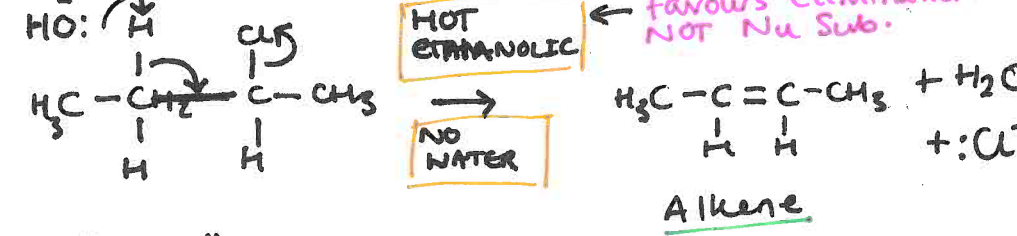
Nucleophiles:  $:NH_3$ ,  $:OH^-$ ,  $:CN^-$   
 Reactivity:  $C-F > C-Cl > C-Br > C-I$



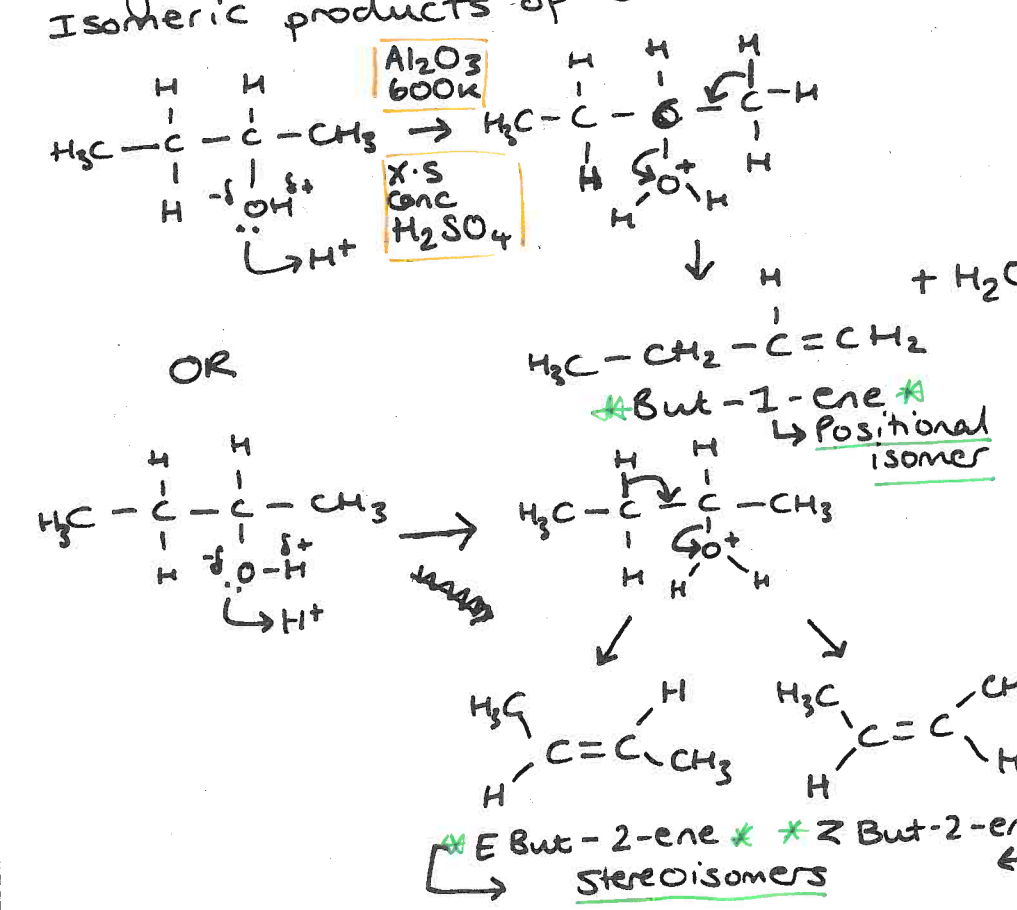
# Nucleophilic addition



# Elimination



# Dehydration of ROH



# Electrophilic addition

