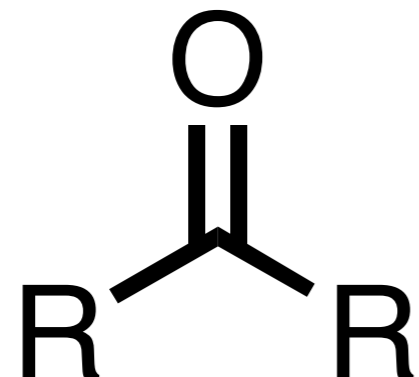


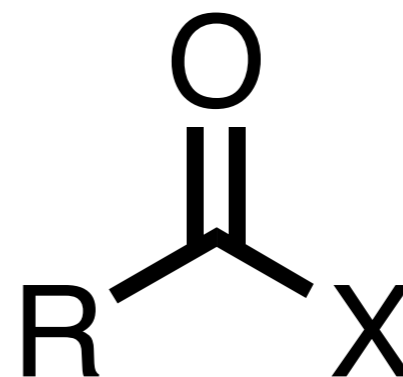
Final Exam
Friday, 12:30 pm
Stevens

~40-50% new material
~50-60% comprehensive

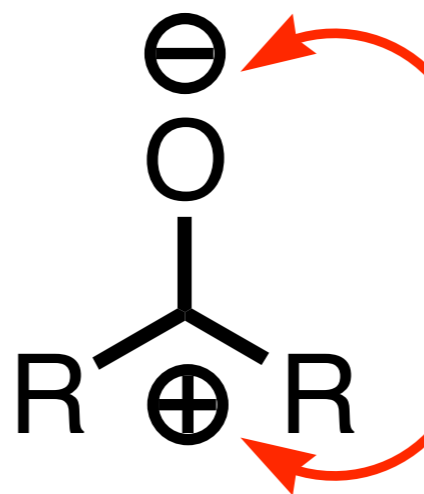
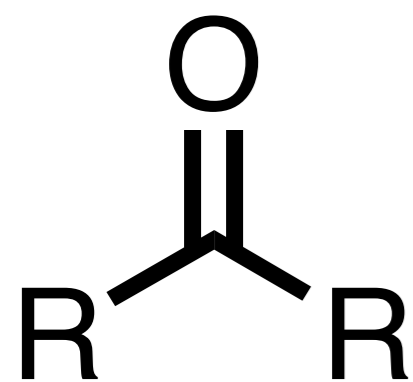
Carbonyl Chemistry



aldehydes
ketones



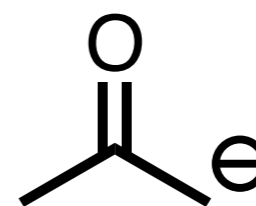
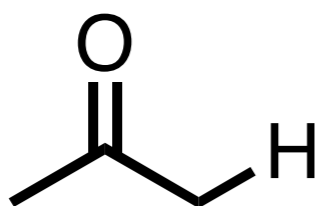
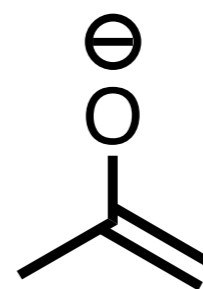
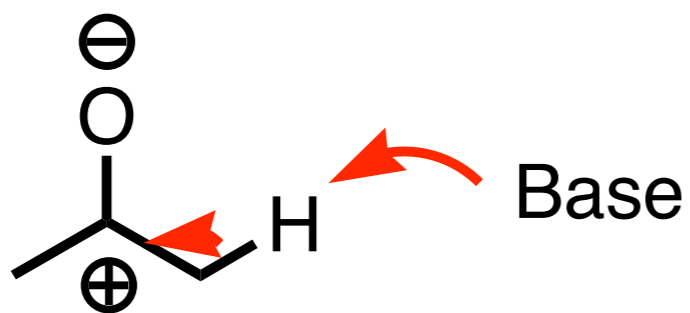
carboxylic acid
and derivatives

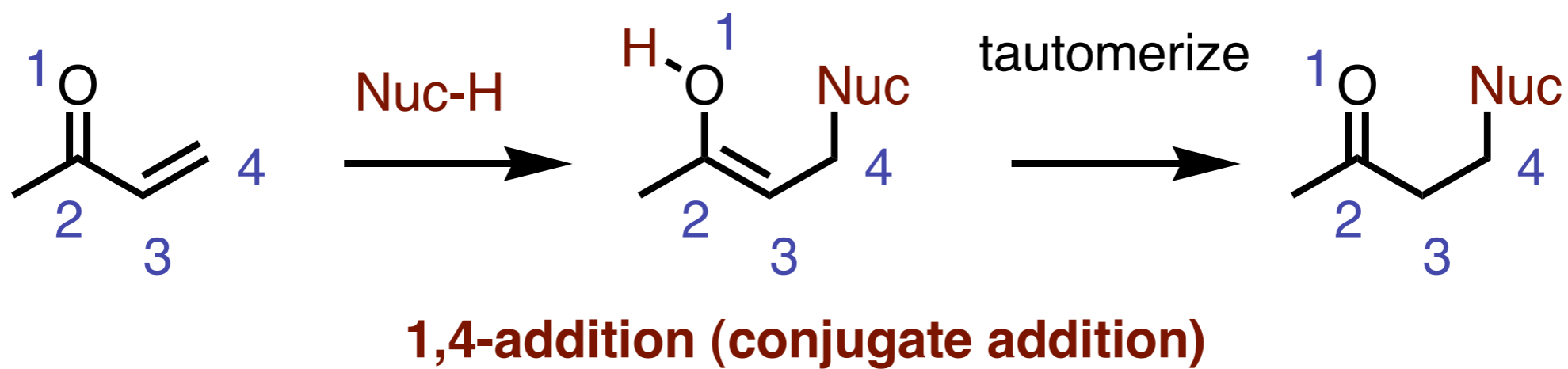
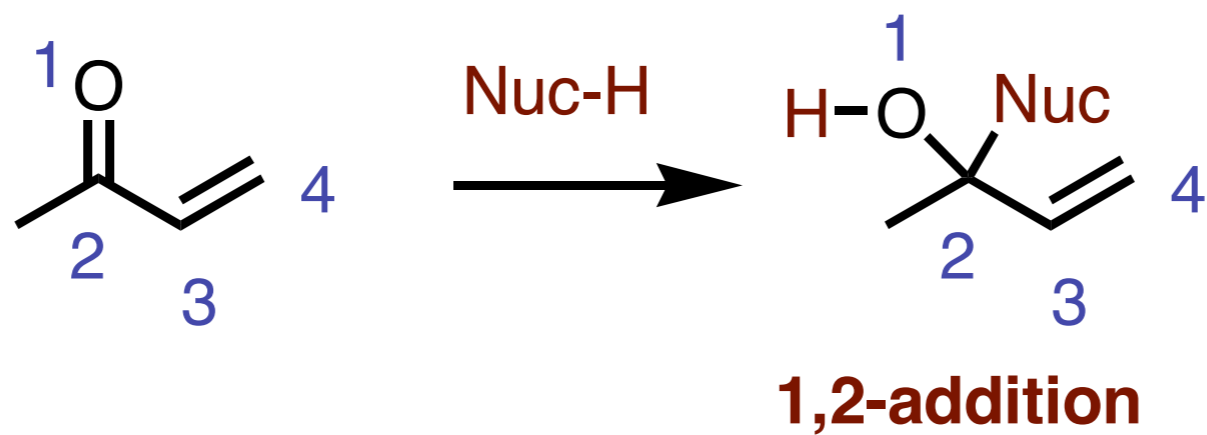
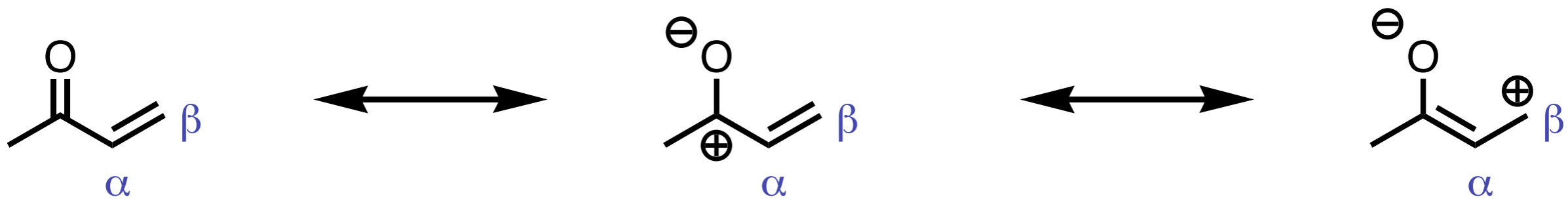


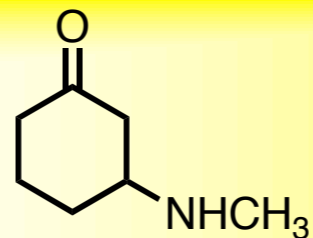
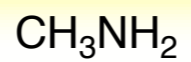
Electrophiles (eg. H^+)

Nucleophiles (eg. CH_3MgBr)

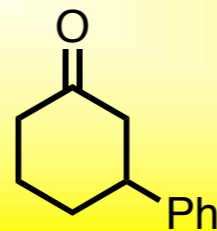
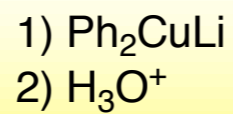
an enolate



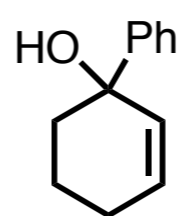
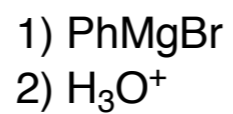
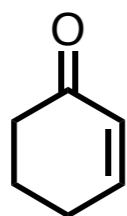




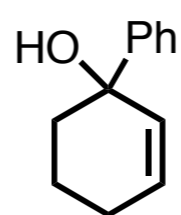
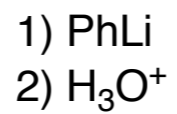
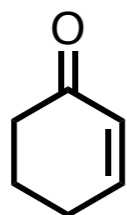
1,4-addition



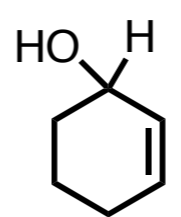
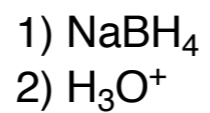
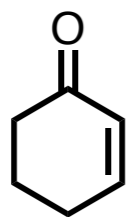
1,4-addition



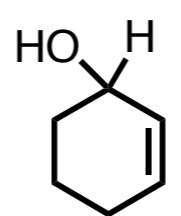
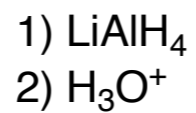
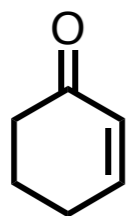
1,2-addition



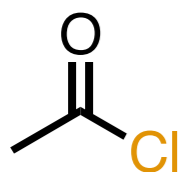
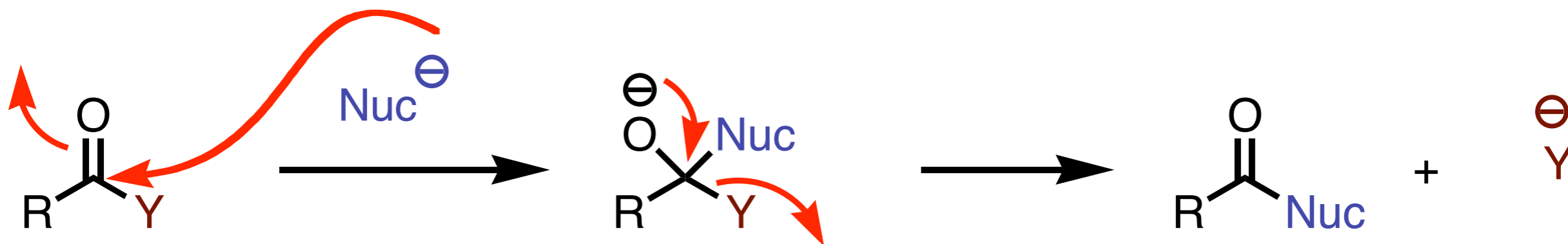
1,2-addition



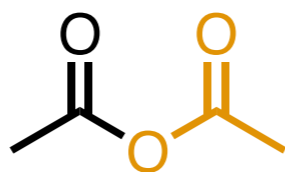
1,2-addition



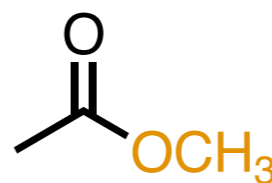
1,2-addition



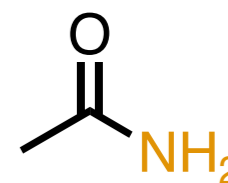
Acid Halides
(acetyl chloride)



Acid anhydrides
(acetic anhydride)



Esters
(methyl acetate)

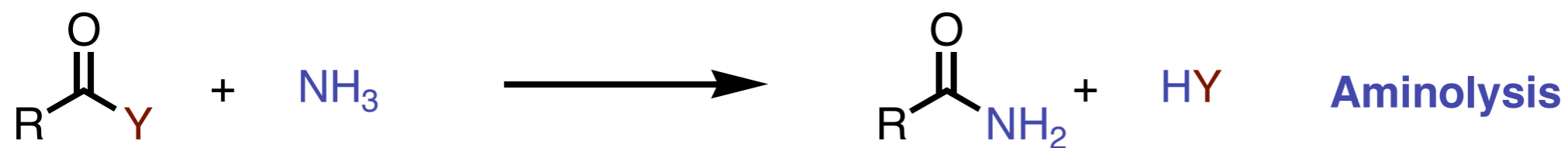
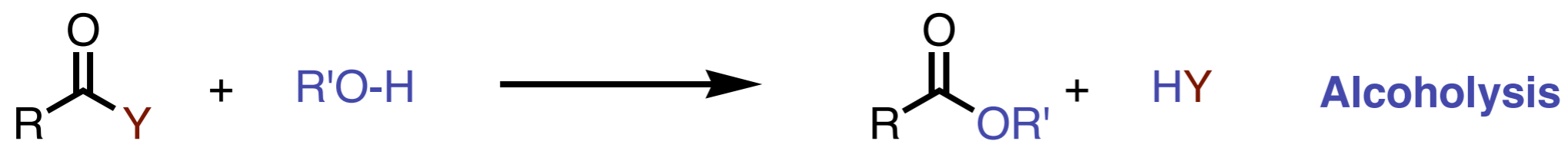
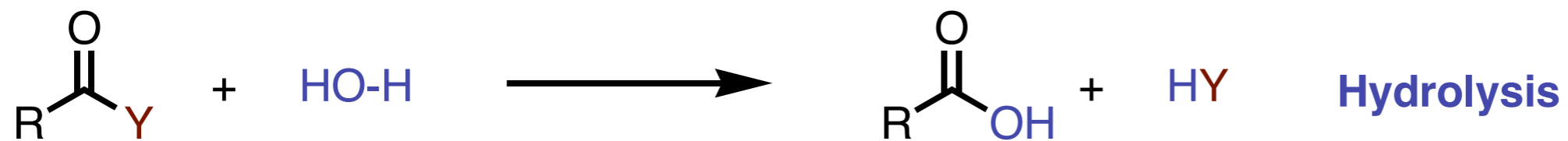
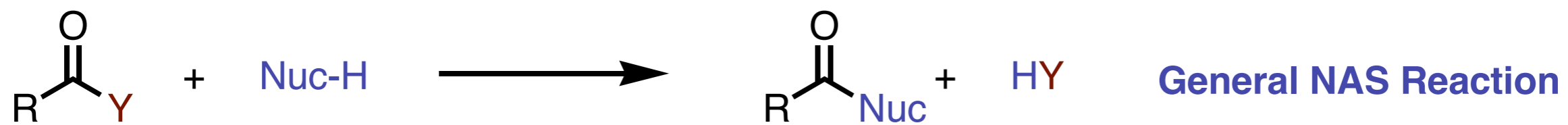


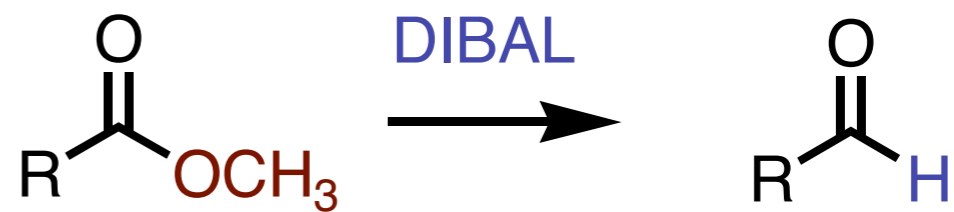
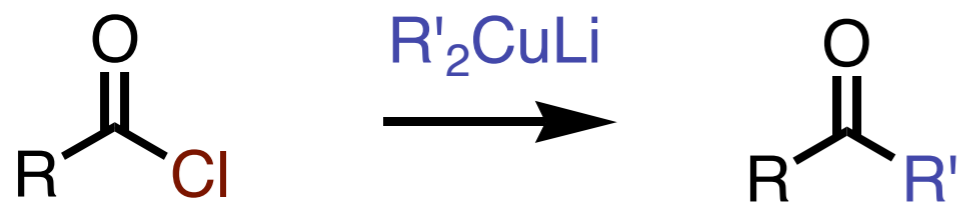
Amides
(acetamide)

More Reactive

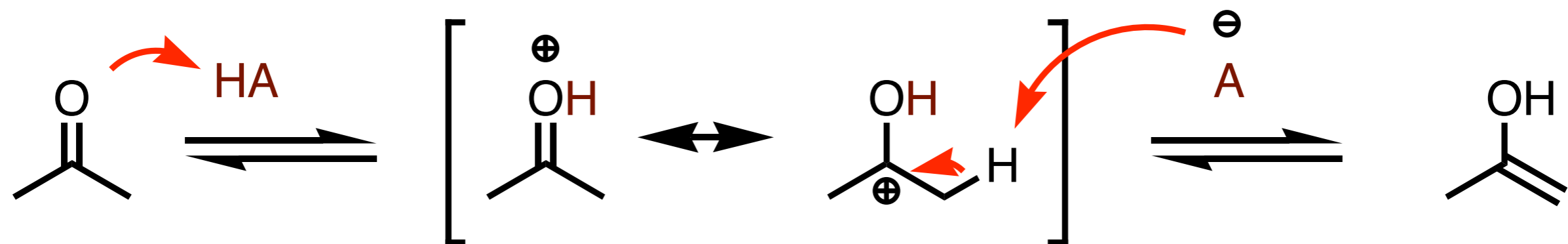


Less Reactive

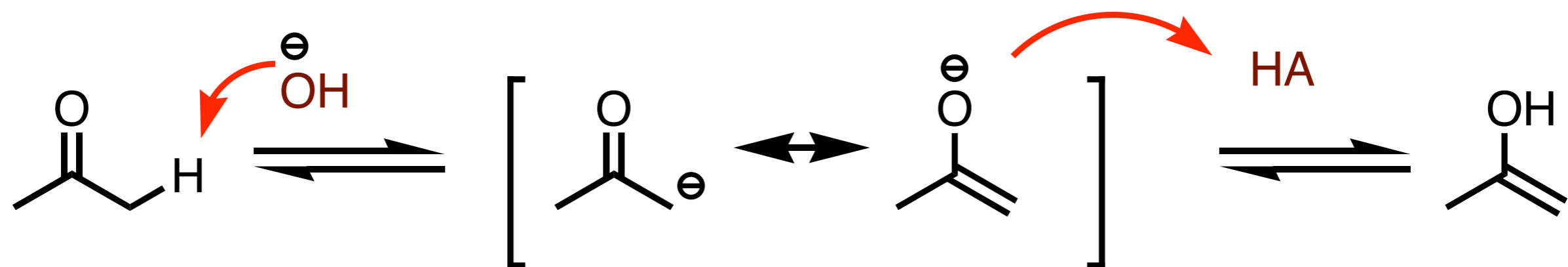


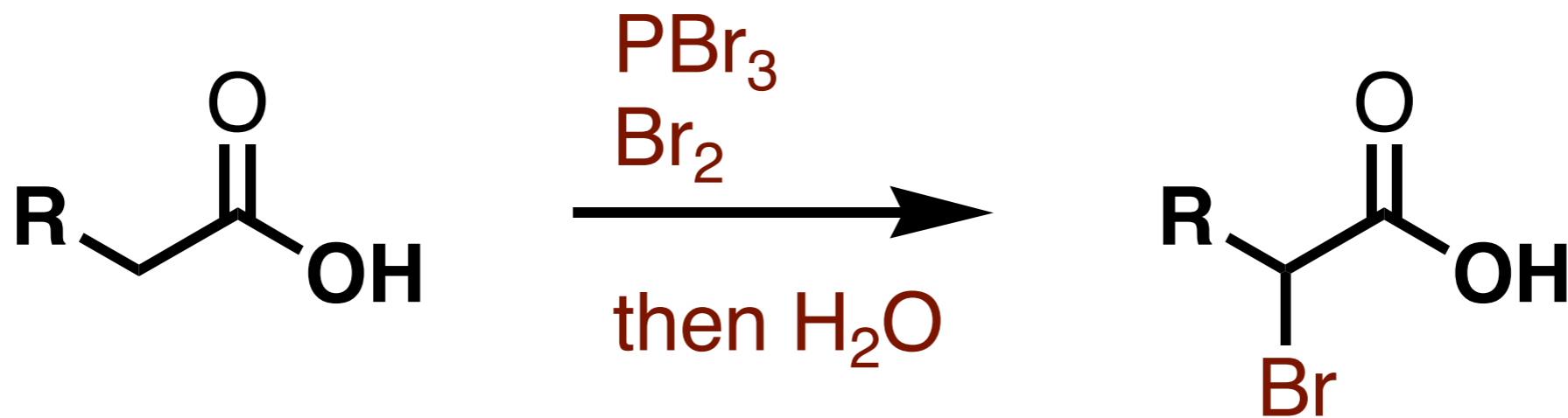
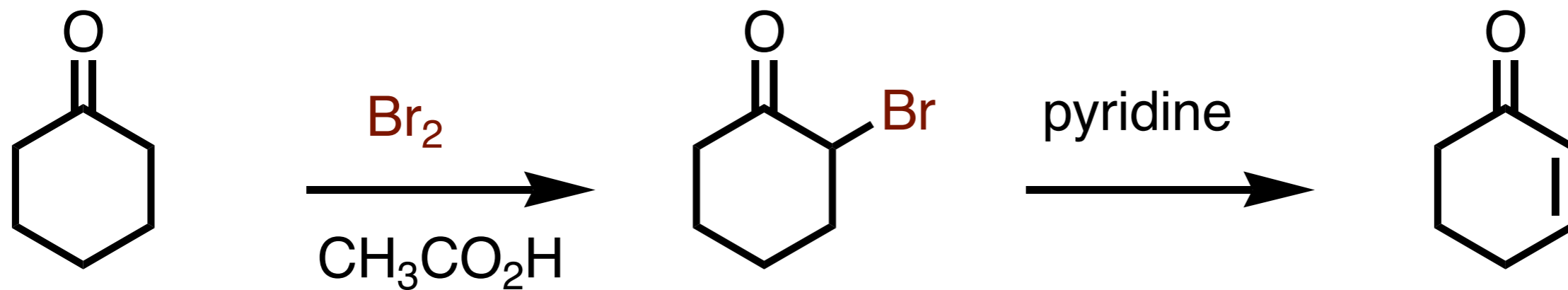
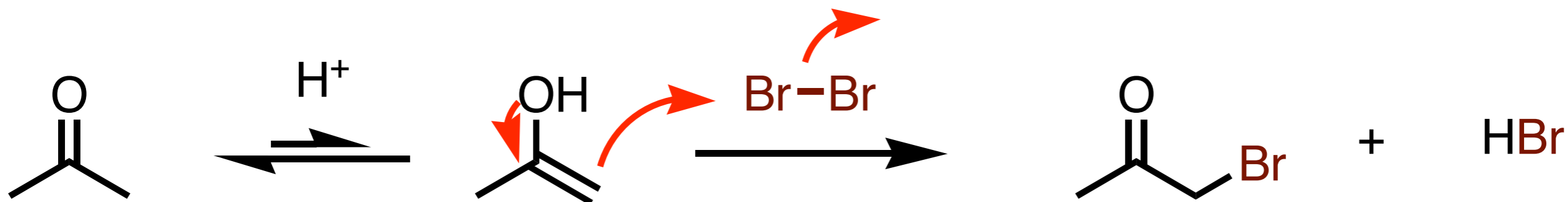


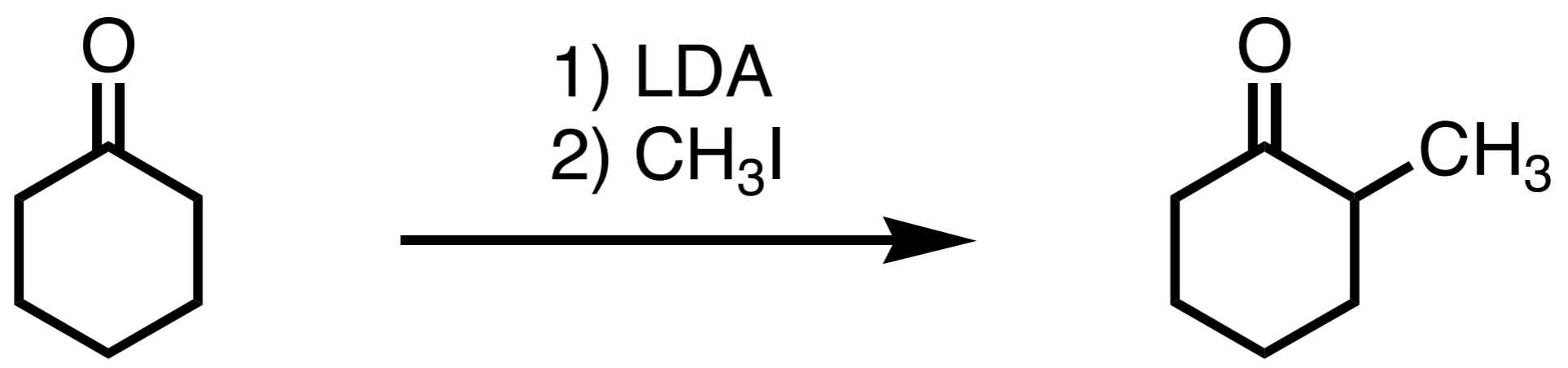
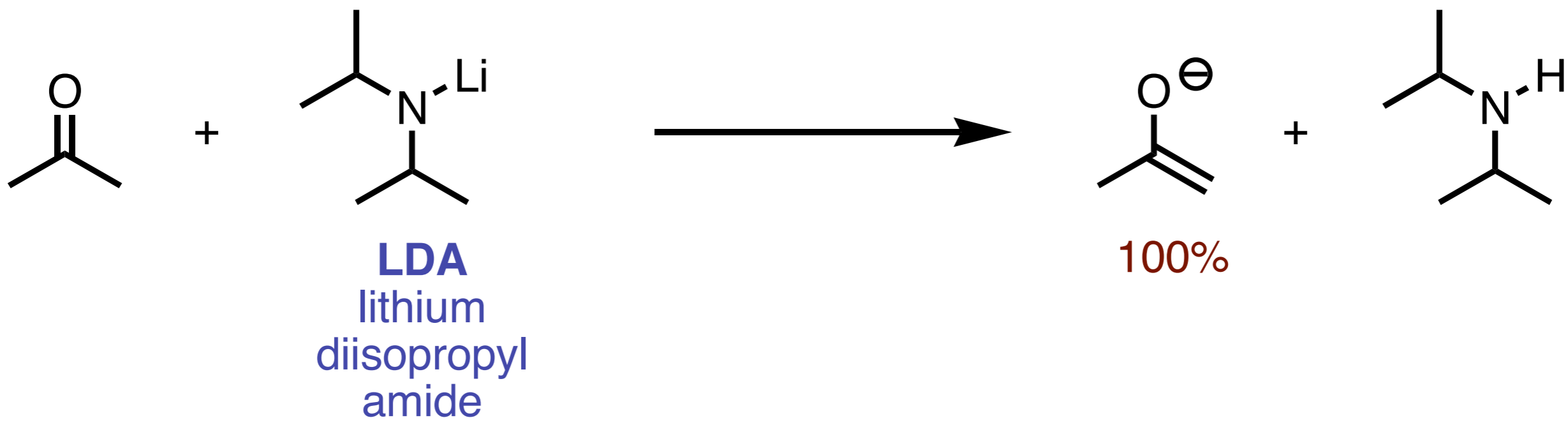
Acid Catalyzed Enol Equilibrium

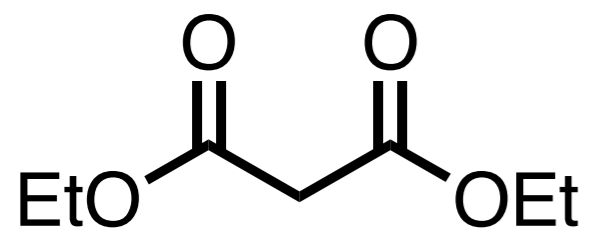
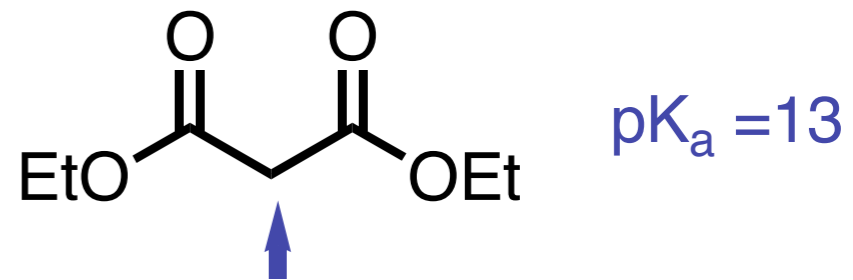
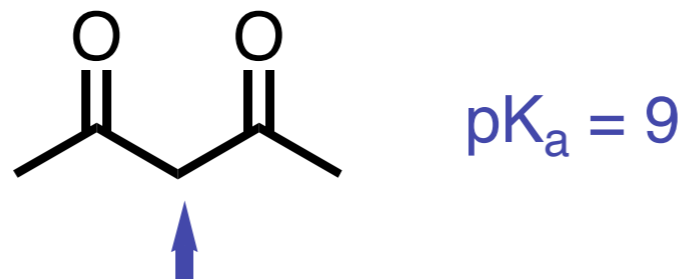


Base Catalyzed Enol Equilibrium

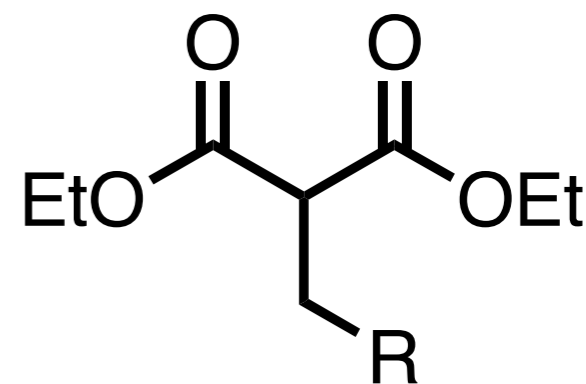
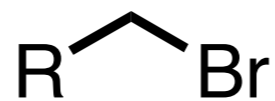


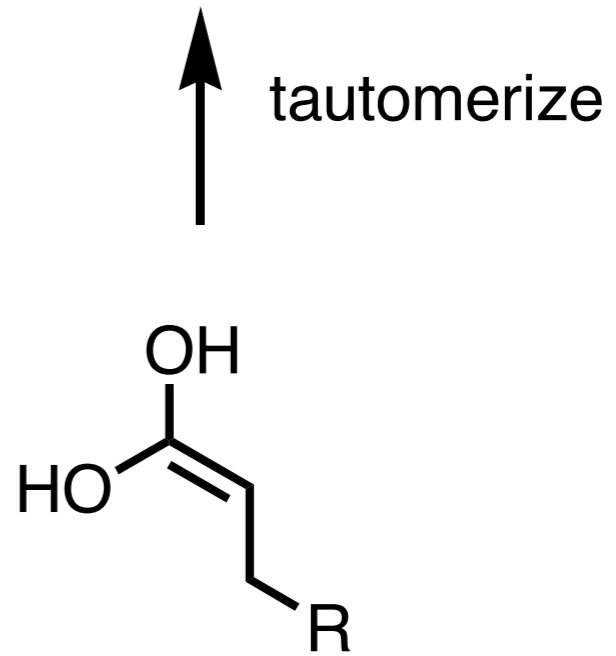
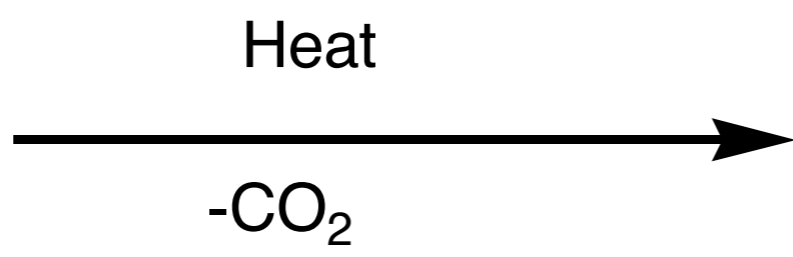
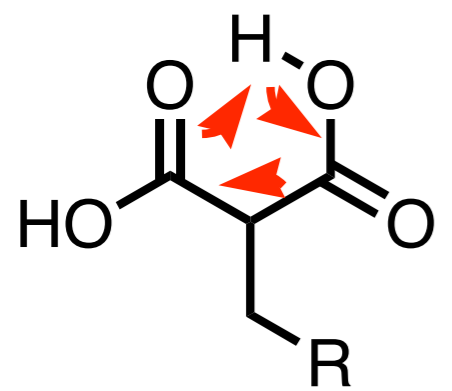
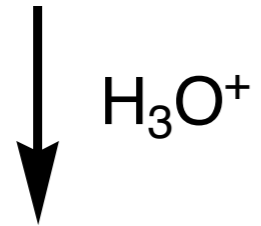
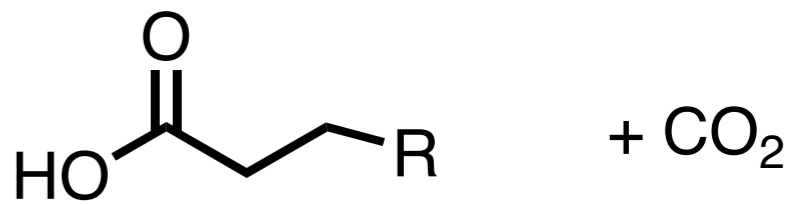
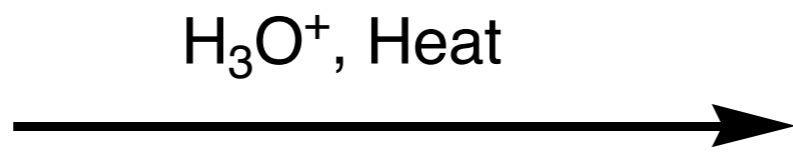
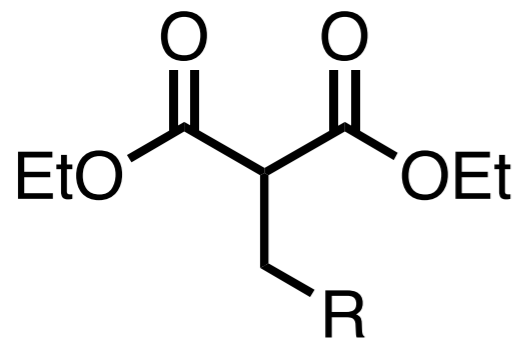
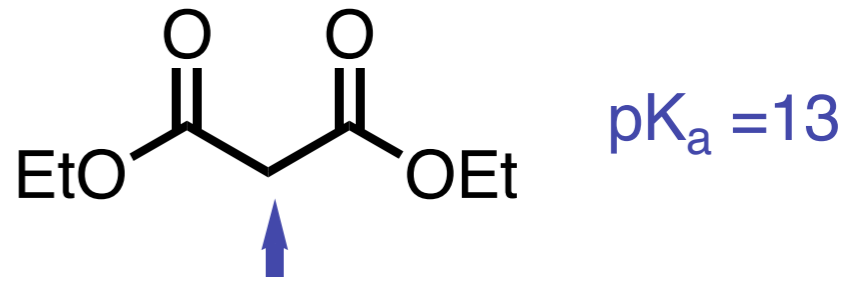
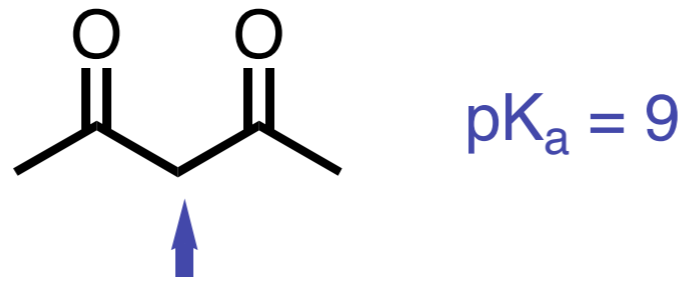


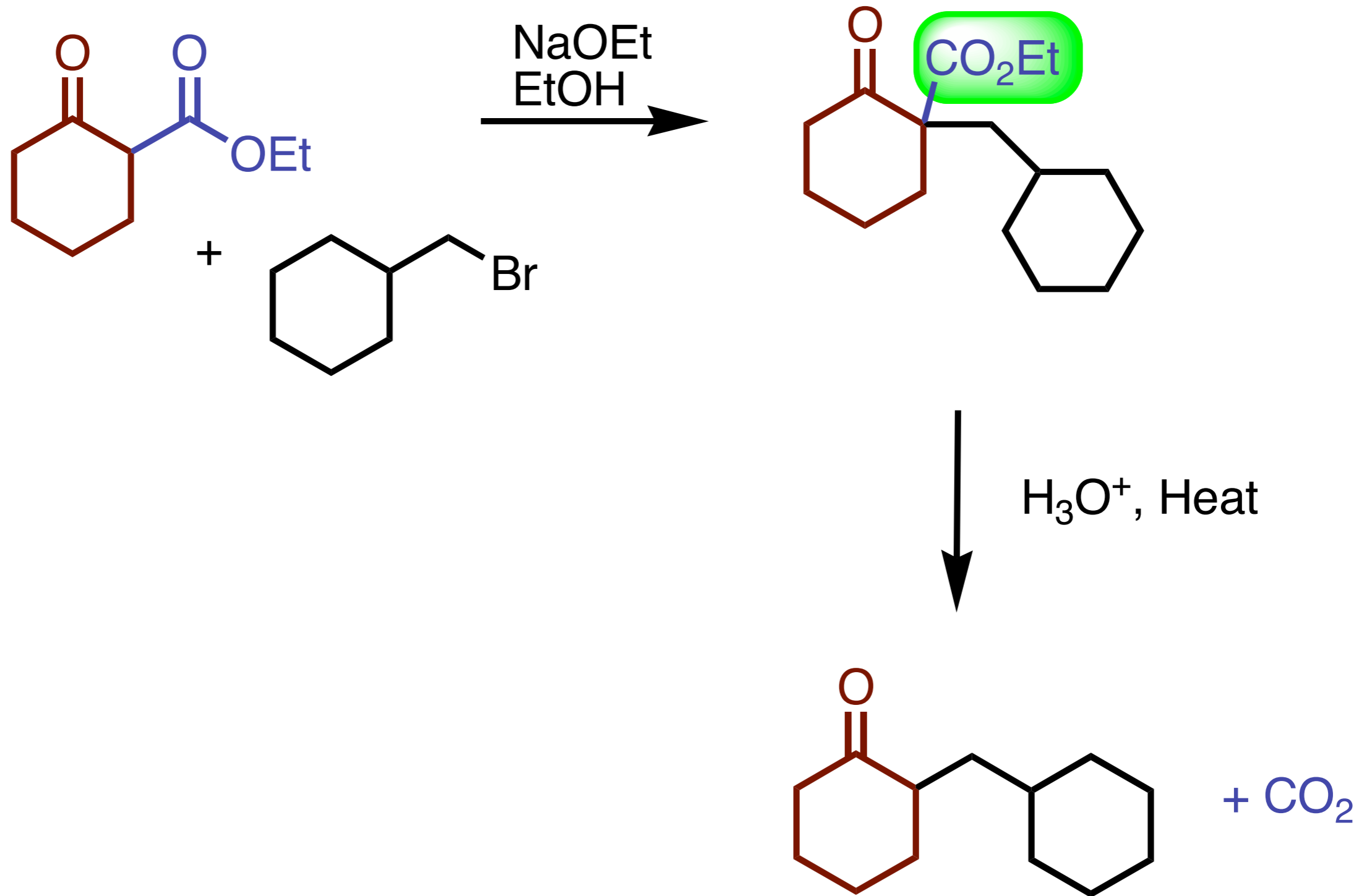


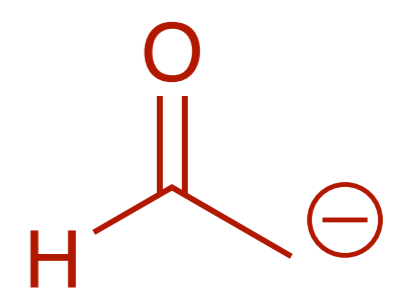
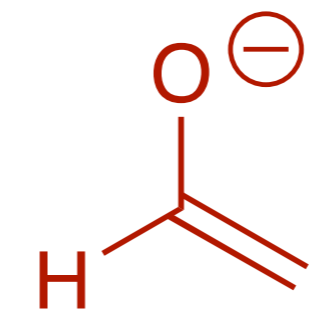
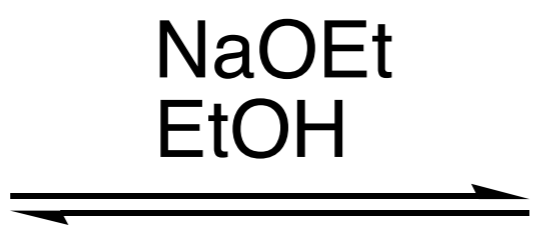
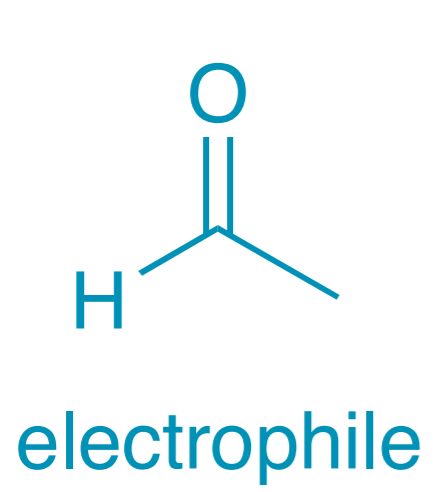


NaOEt, EtOH









nucleophile

