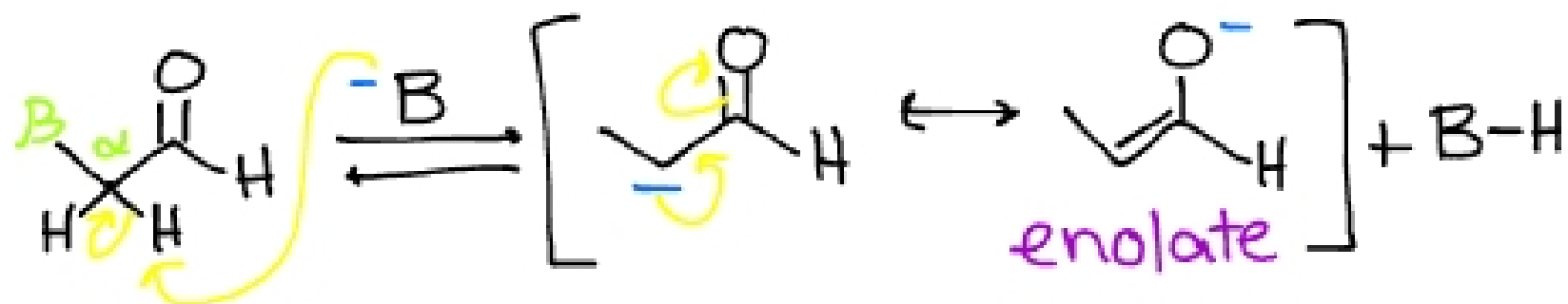


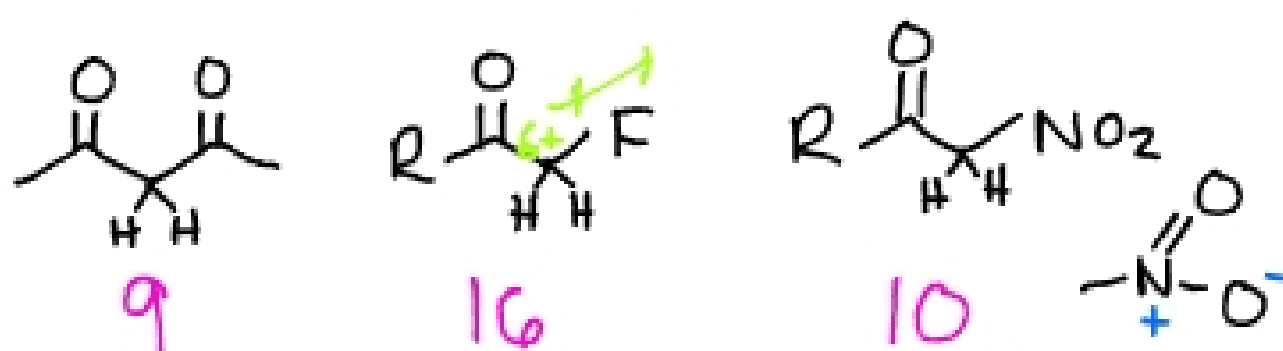
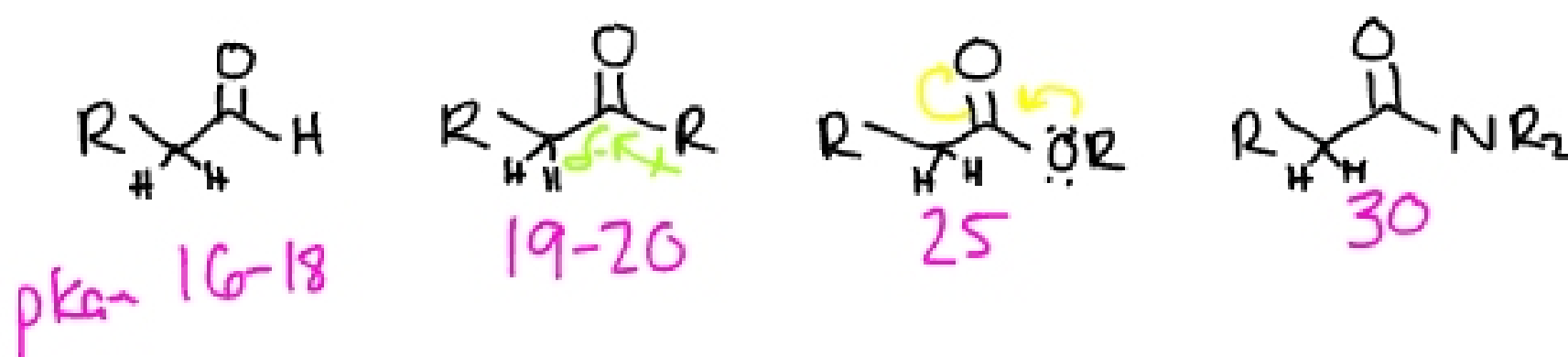
Chapter 18:

I. Acidity at the alpha C (18-1)

1. Alpha hydrogens are acidic due to resonance stabilization

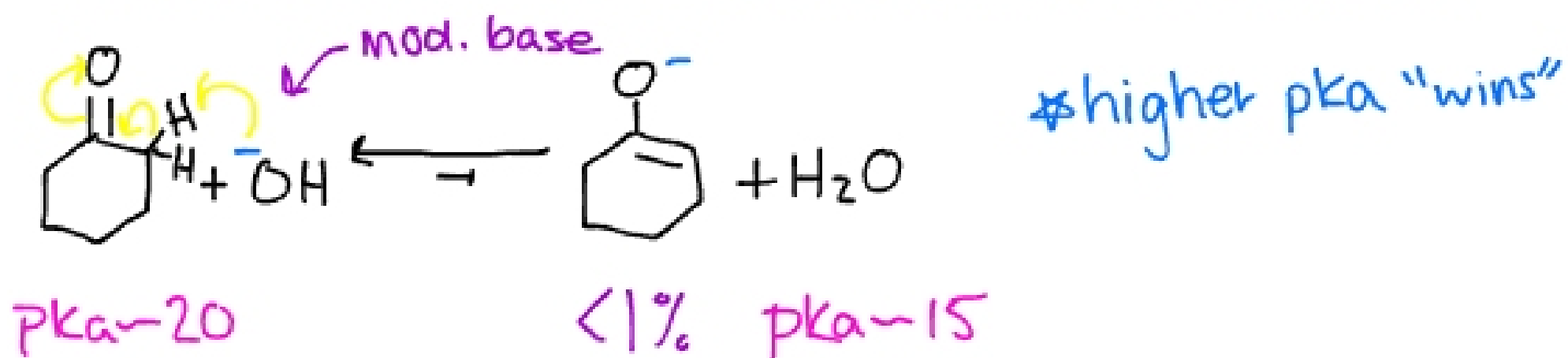


A. Aldehydes are more acidic than ketones



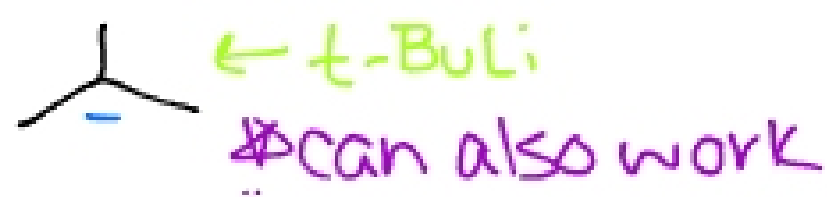
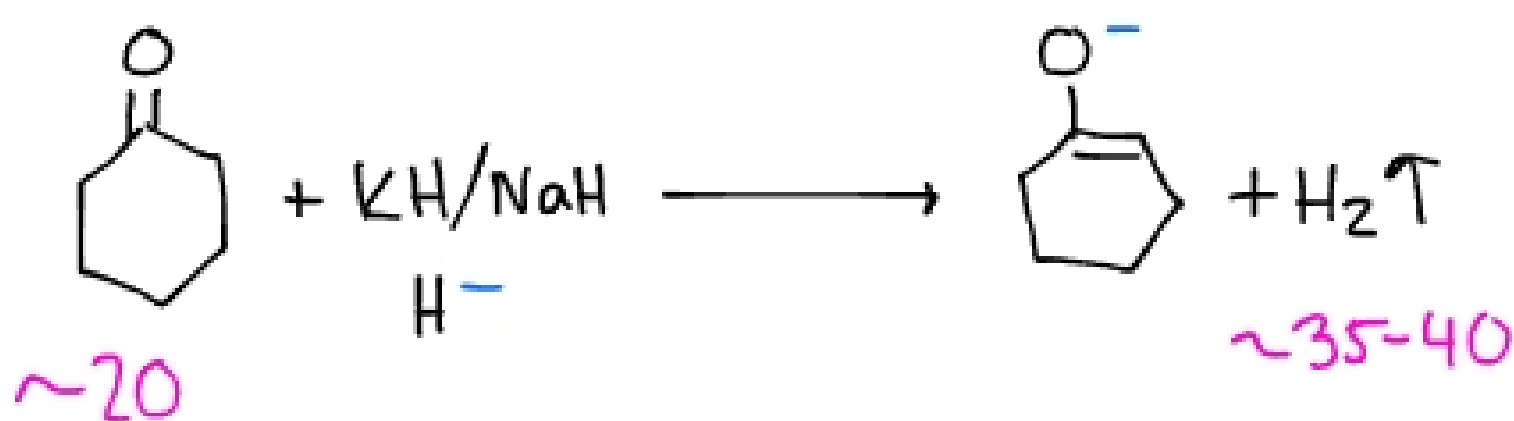
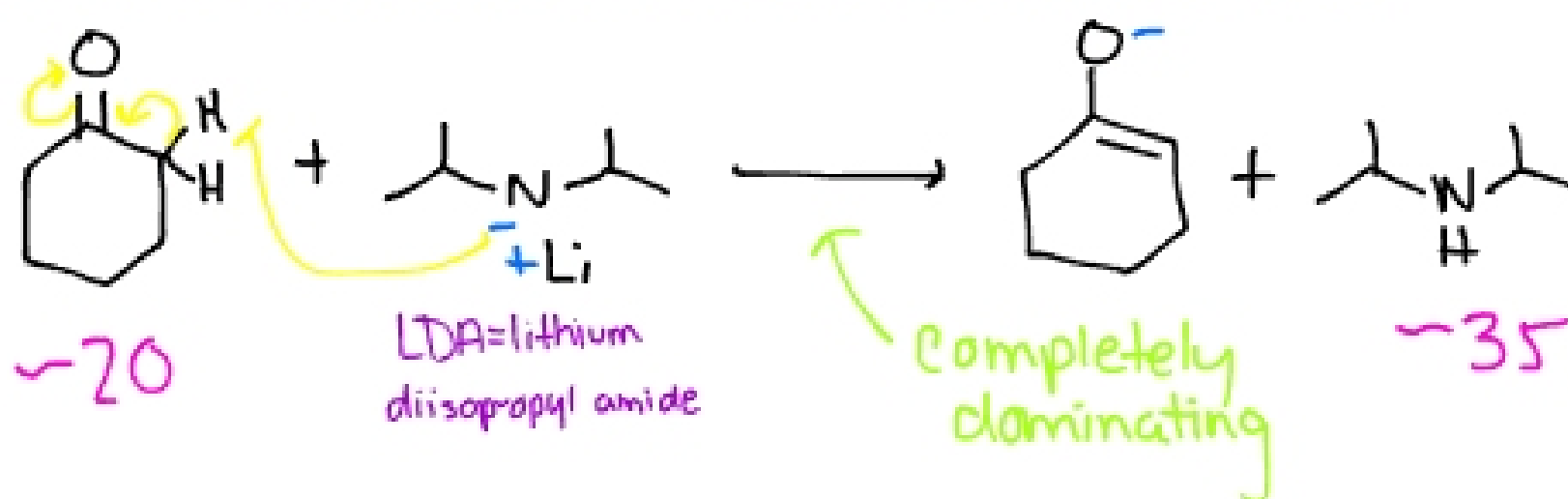
2. Formation of Enolates

A. Weak/moderate bases only partially promote Enolate formation

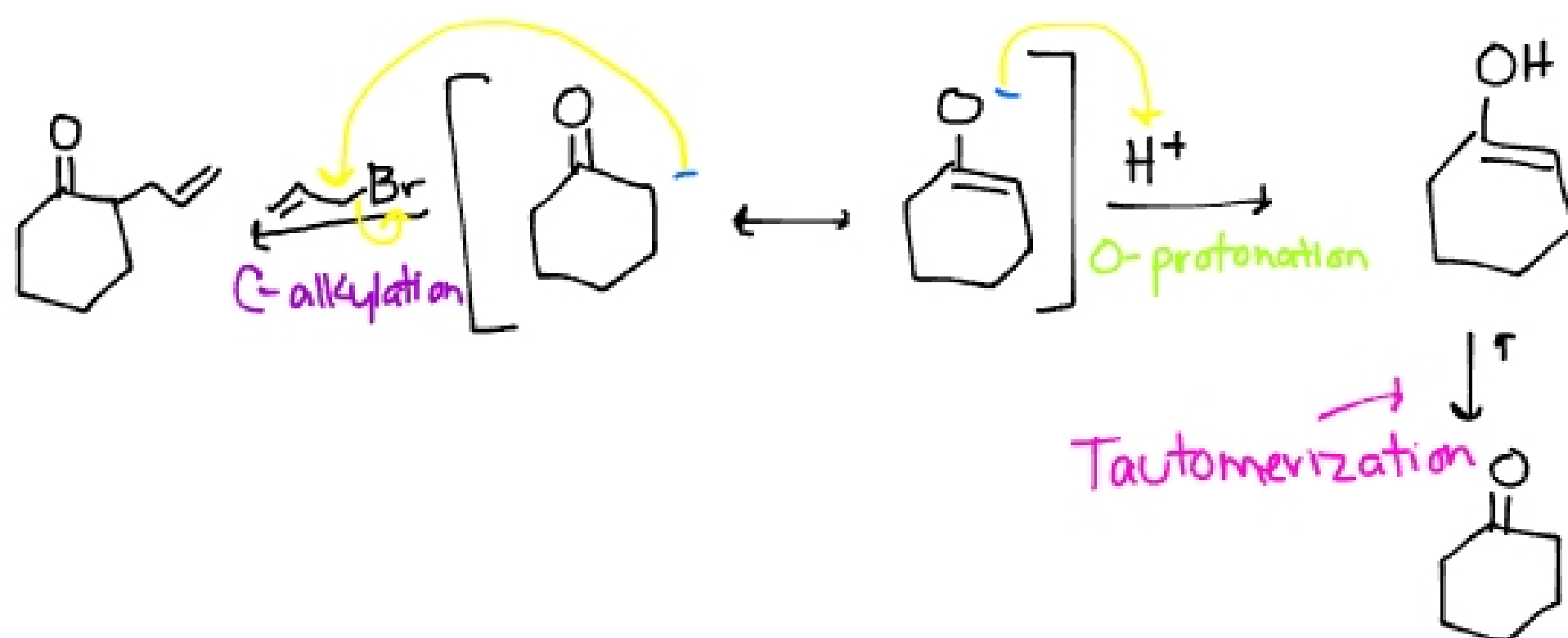


-reactive Enolate will push Equilibrium

B. Stronger bases completely promote enolate formation



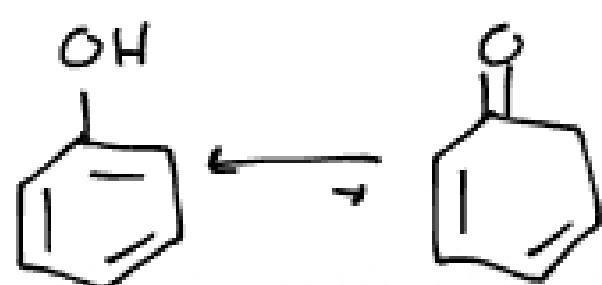
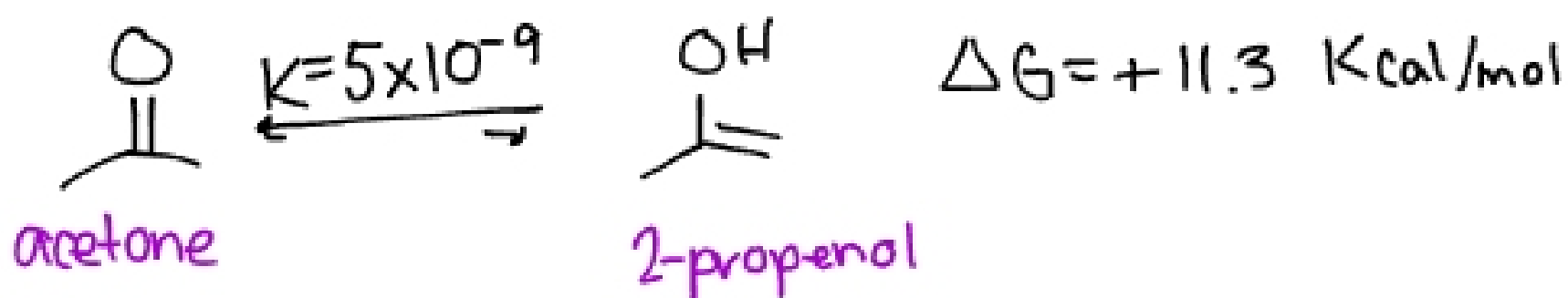
3. Enolates are ambident - can attack from C and O



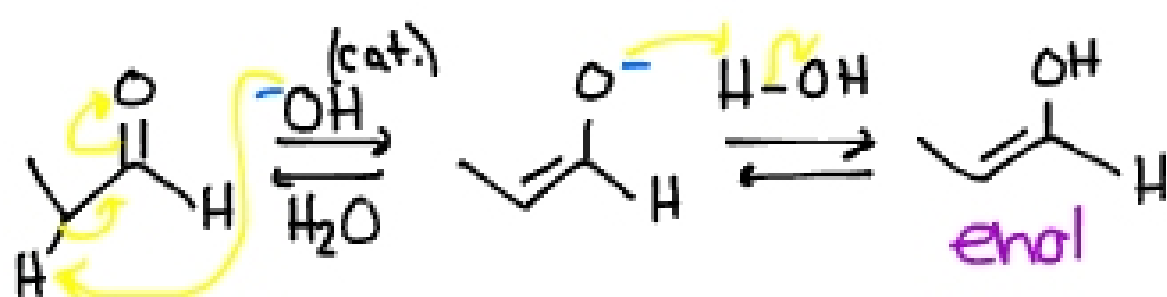
II. Keto-Enol Equilibria (18-2)

1. tautomerization - rapid equilibrium btwn keto and enol forms

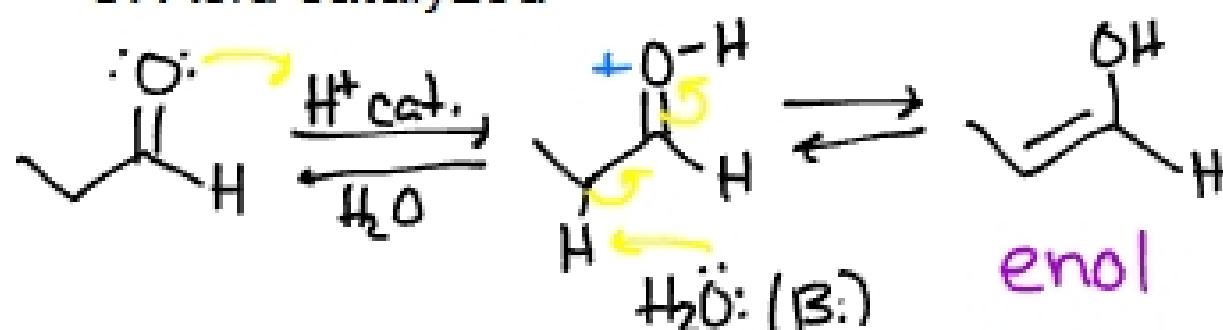
A. Keto form is thermodynamically favorable



B. Base catalyzed enol formation



C. Acid catalyzed



2. Equilibrium can lead to isomerization

