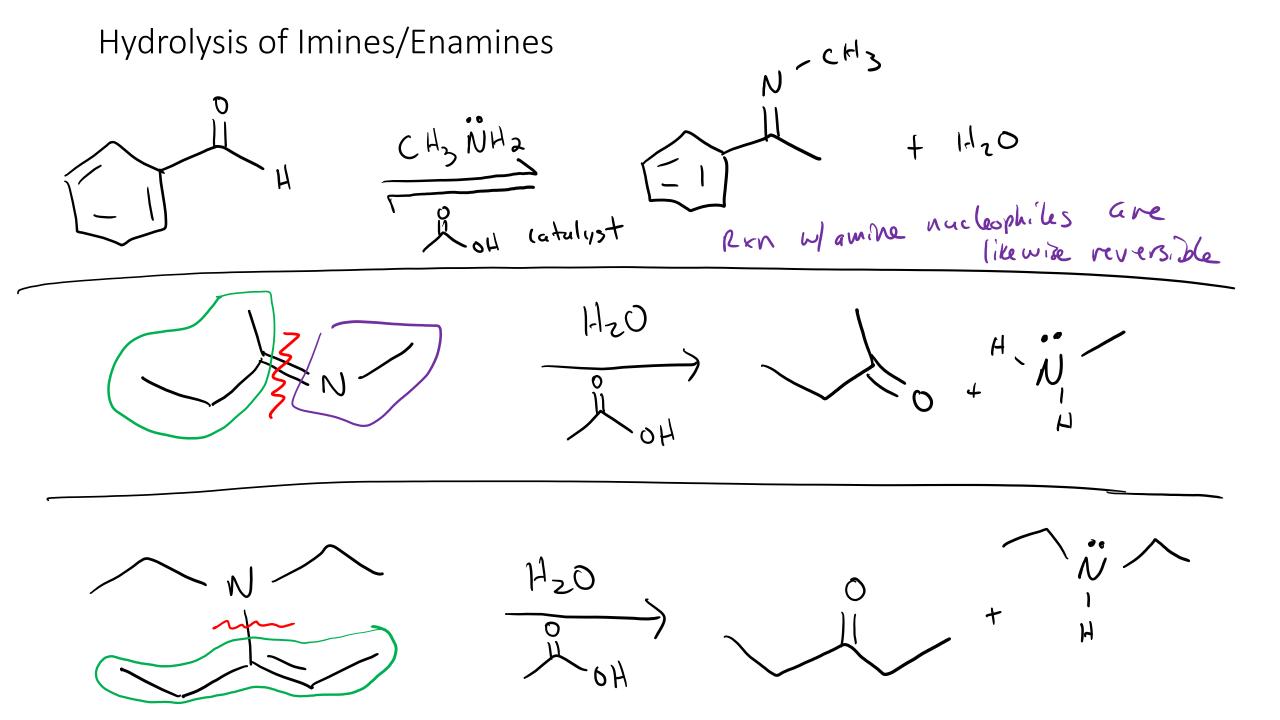
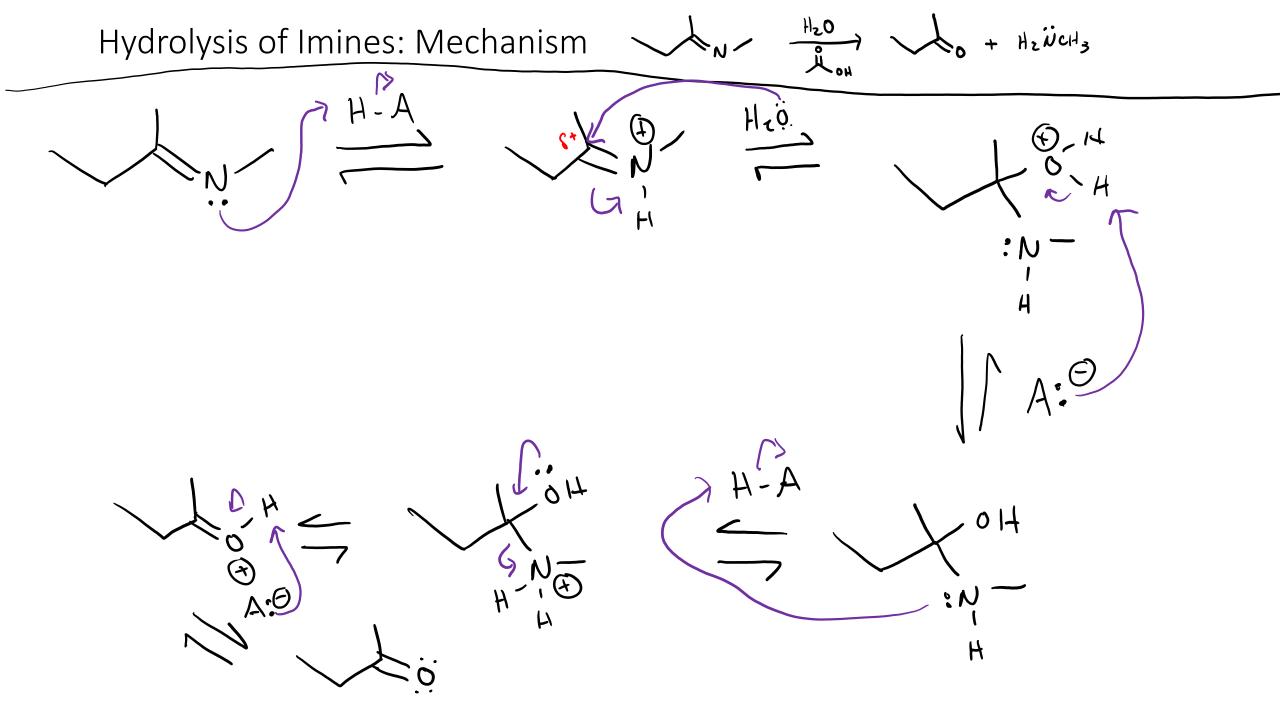
Exam 1 - next Friday Resources on mobile

Imine/Enamine Hydrolysis

Hydrogen & Carbon Nucleophiles

2/10/2023

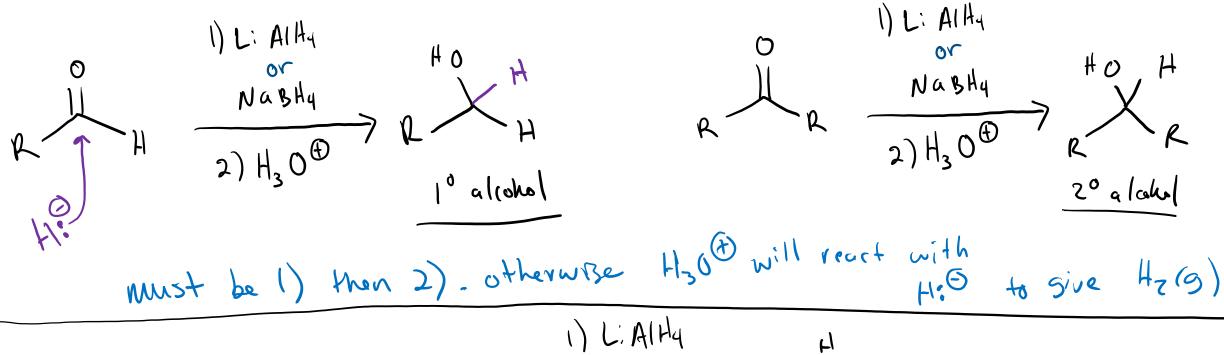




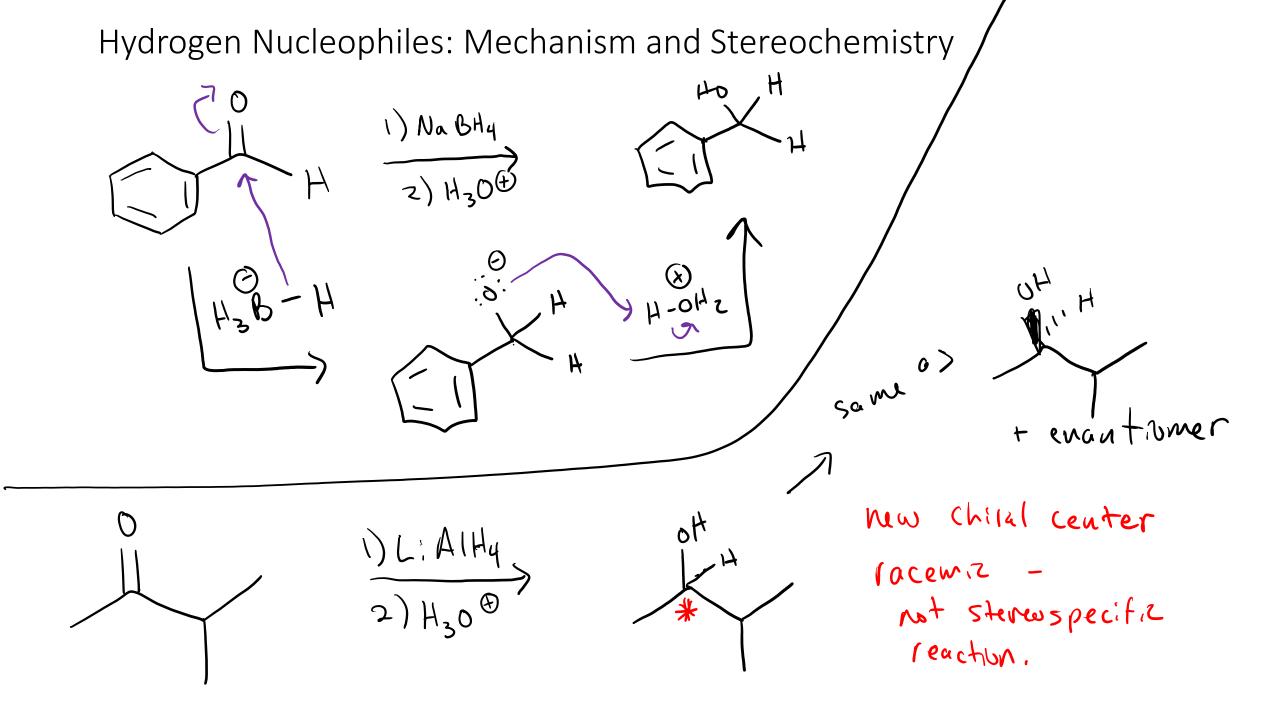
Hydrogen as a Nucleophile

(19.9, 12.4)

Hydrogen Nucleophiles: "Reducing" Ketones, Aldehydes, and Imines



& useful for synthems &



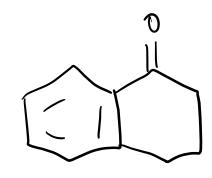
Carbon Nucleophiles: Alkyllithium and Grignard Reagents R - Mg Br "Grignord reagent" alkyl lithium extremely strong bose + nucleophile reactes anhydrous conditions M 5° (5) Mg br Grignord

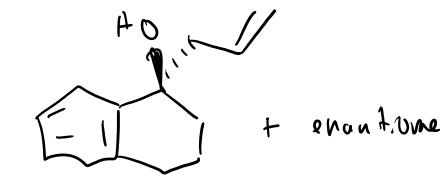
Carbon Nucleophiles

$$\frac{1)R'-Li\ or\ R'-MgBr}{2)H_30^{\oplus}}$$

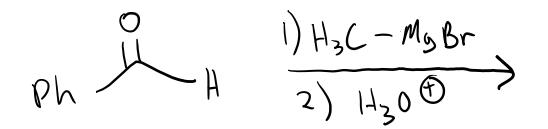
$$\frac{1}{2} \frac{1}{120} \frac{1}{120}$$

you must indirate
store oche un in
some way when
new chiral center
forms!

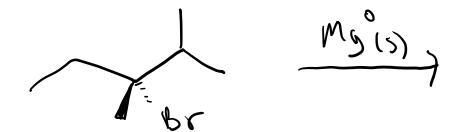




Carbon Nucleophiles: Mechanism and Stereochemistry



Carbon Nucleophiles: Other Notes



$$\frac{1}{2)} = c = 0$$
2) H_30^{\oplus}