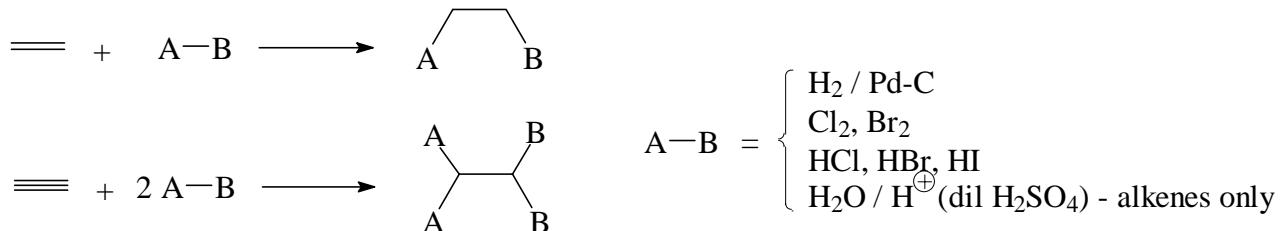
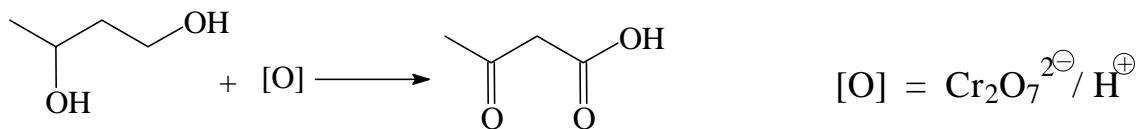
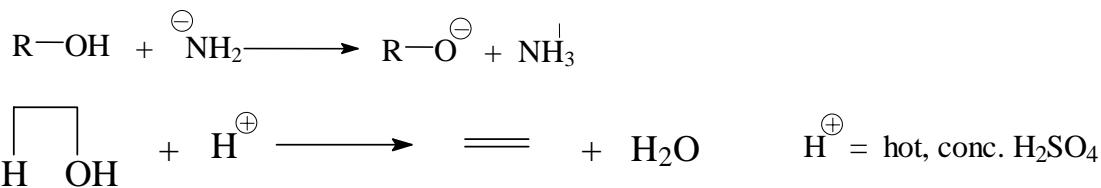


SUMMARY OF REACTIONS

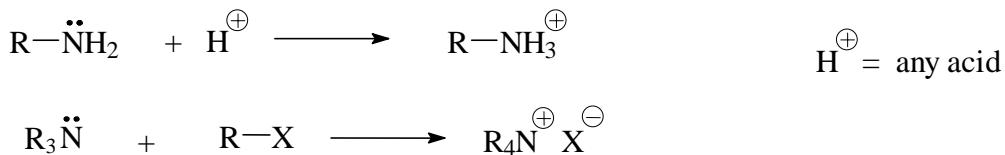
Alkenes and Alkynes- Electrophilic Addition



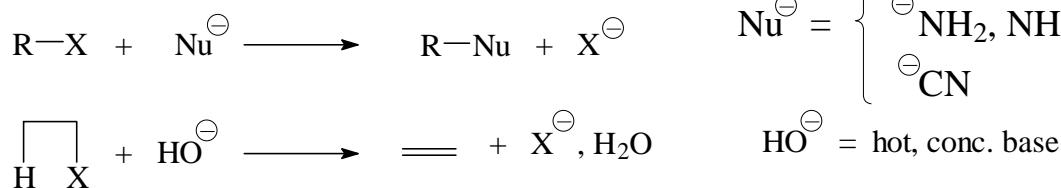
Alcohols – Acid-Base, Elimination, Oxidation



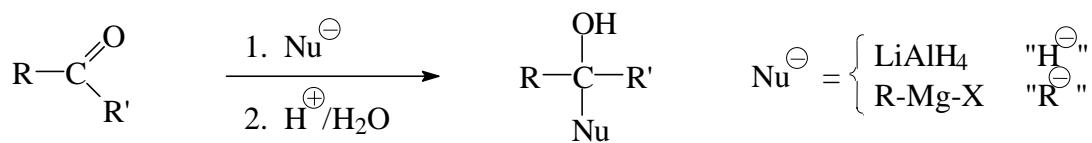
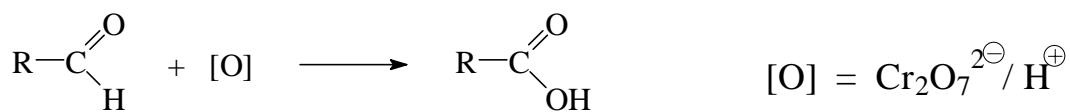
Amines – Acid-Base, Substitution



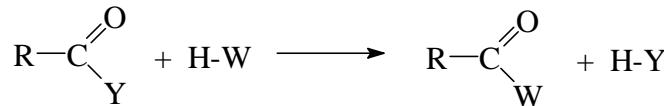
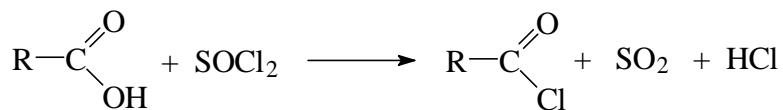
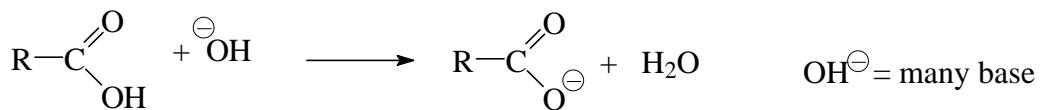
Alkyl Halides – Nucleophilic Substitution and Elimination



Aldehydes and Ketones – Nucleophilic Addition and Oxidation



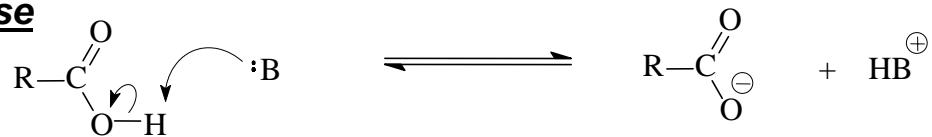
Carboxylic Acids and Derivatives – Acid/base and Nucleophilic Substitution



Y	W
Cl	OH, OR, NR ₂
OR	OH, NR ₂
NR ₂	OH

SUMMARY OF MECHANISMS

Acid/Base

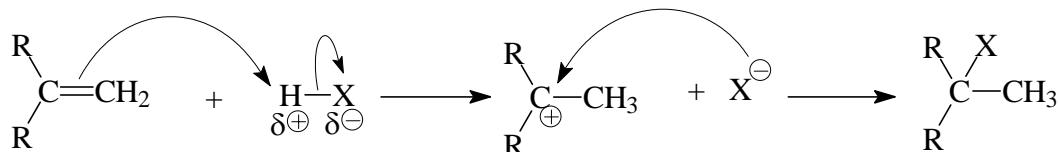


	pK_a	React with NH_2^-	React with OH^-	React with HCO_3^-
Carboxylic Acid	RCOOH	~5	✓	✓
Phenol	$\text{C}_6\text{H}_5\text{OH}$	9.9	✓	X
Alcohol	ROH	~16	✓	X

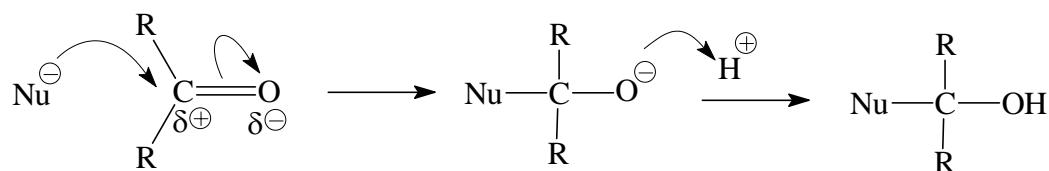


Addition

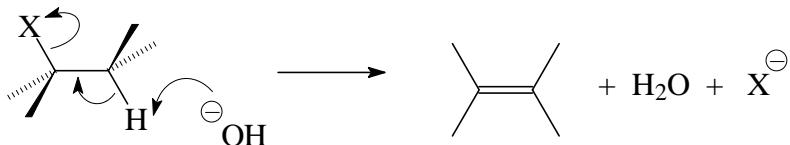
Electrophilic addition



Nucleophilic addition

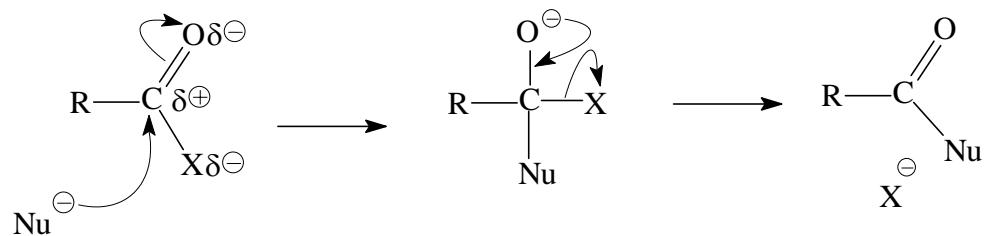


Elimination



Substitution

Nucleophilic substitution



Oxidation

