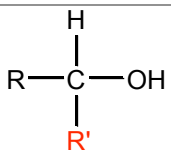
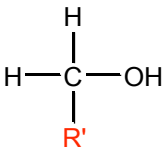
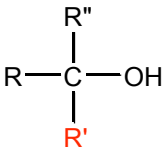
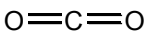
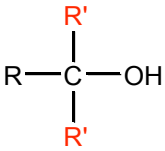
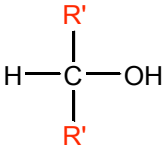
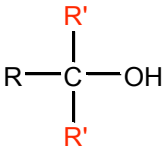
Addition of Grignard Reagents to Various Carbonyl Groups

Starting C=O		+ R'MgX → H^+(aq) →	Product	
	Aldehyde			2° Alcohol
	Formaldehyde			1° Alcohol
	Ketone			3° Alcohol
	Carbon Dioxide			Carboxylic Acid
	Ester			3° Alcohol
	Formate Ester			2° Alcohol
	Acid Chloride			3° Alcohol

Kline 1/20/2003