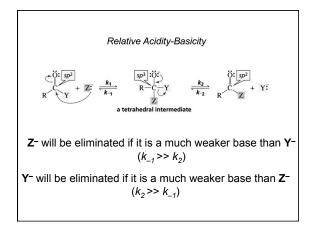
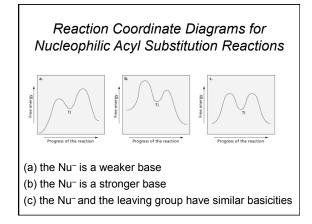


Rea	ctivity is Rela	ted to Struct	ure
Ŷ	Stabilization	Relative rate of hydrolysis	
RCCI Q Q	very small	10 ¹¹	
 RCOCR' Q	small	10 ⁷	
 RCOR' Q	moderate	1.0	The more stabilized the carbonyl group,
∬ RCNR'₂	large	< 10 ⁻²	the less reactive it is.





The pK _a Values of the Conjugate Acids of the Leaving Groups of Carbonyl Compounds				
Carbonyl compound	Leaving group	Conjugate acid of the leaving group	pK_a	
Class I				
R Br	Br ⁻	HBr	-9	
R ^C Cl	CI	HC1	-7	
R C O R	-0 C R	R ^C OH	~3-5	
	⁻ OR'	R'OH	~15–16	
R ^C OH	-ОН	H ₂ O	15.7	
R ^C NH ₂	⁻ NH ₂	NH ₃	36	
Class II Q				
R∕ ^C ∕H	H_	H ₂	~40	
R	R ⁻	RH	~50	

