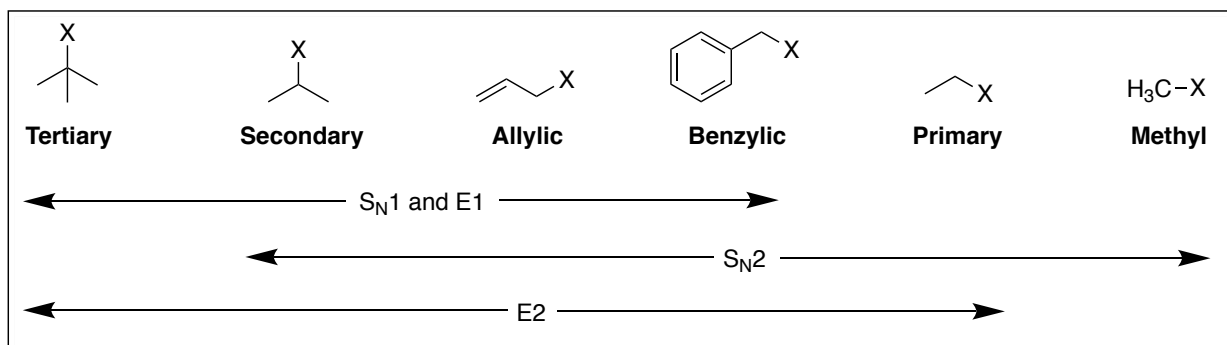


Competition Between Substitution and Elimination Mechanisms



<u>Substrate</u>	<u>Base/Nucleophile</u>	<u>Experimental Finding</u>
1°	strong	$\text{S}_{\text{N}}2$ favored over E2
2°	strong	E2 favored over $\text{S}_{\text{N}}2$
3°	strong	E2 favored over $\text{S}_{\text{N}}1$ and E1
2° , benzylic, allylic	weak	Both E1 & $\text{S}_{\text{N}}1$ Products
Any	any base	Heat favors elimination over substitution

Some Common Bases/Nucleophiles

Strong Nu Strong Bases	Strong Nu Poor Bases	Weak Nu Weak Bases	Strong Base Poor Nu
HO^\ominus $\text{H}_3\text{CO}^\ominus$ $\text{H}_2\text{N}^\ominus$	X^\ominus $\text{N}\equiv\text{C}^\ominus$ R-S^\ominus R-SH	H_2O H_3COH 	
$\text{S}_{\text{N}}2$ E2	$\text{S}_{\text{N}}2$ Only	$\text{S}_{\text{N}}1$ E1	E2 Only