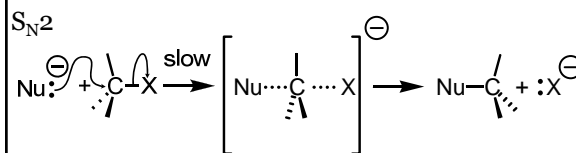


Nucleophilic Substitution Reactions

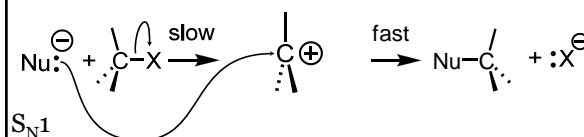
continued

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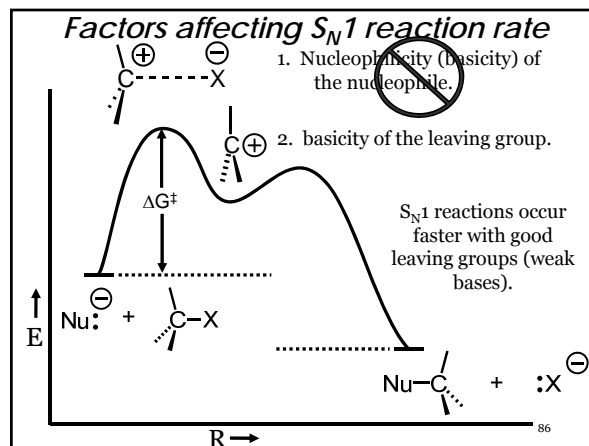
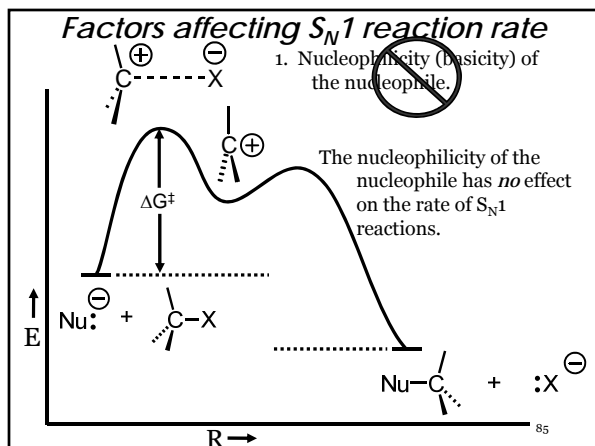
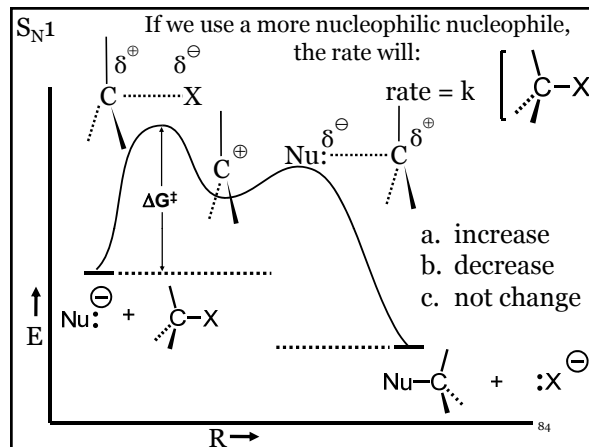
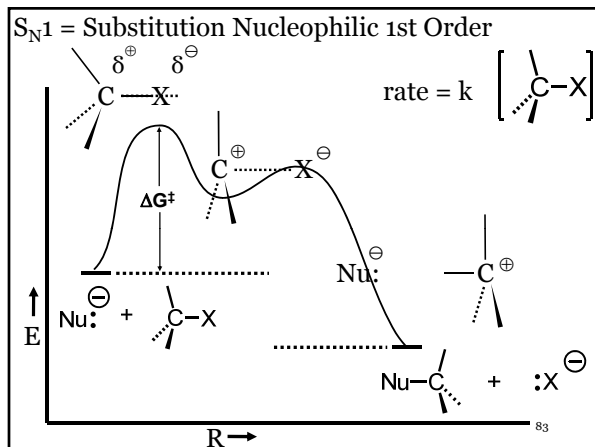
Substitution Reaction Mechanisms

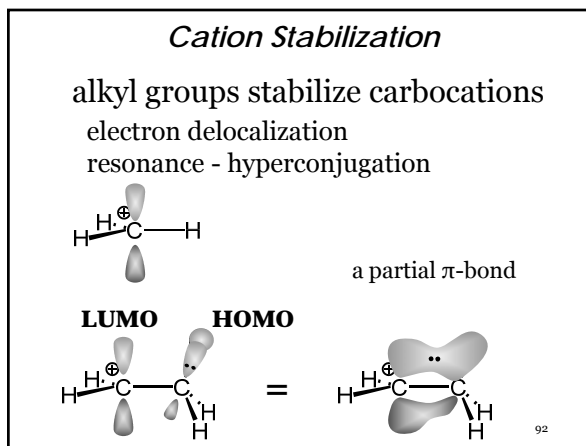
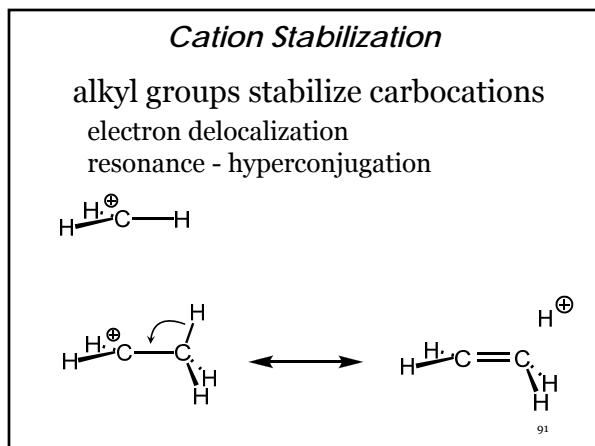
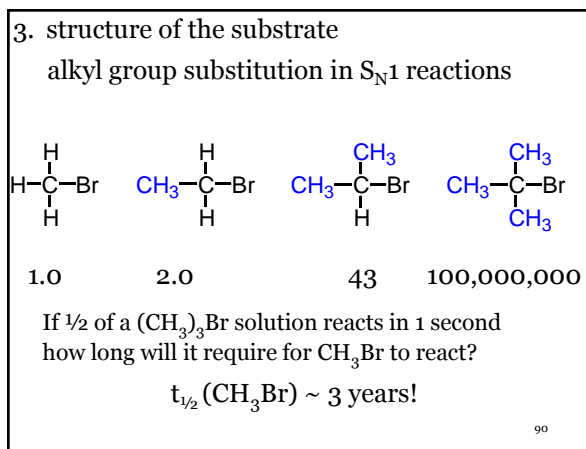
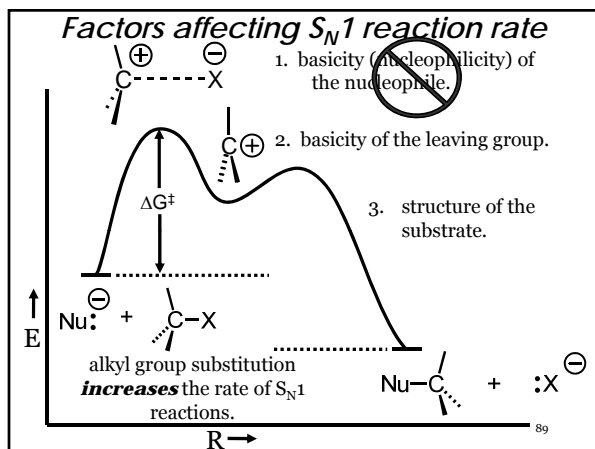
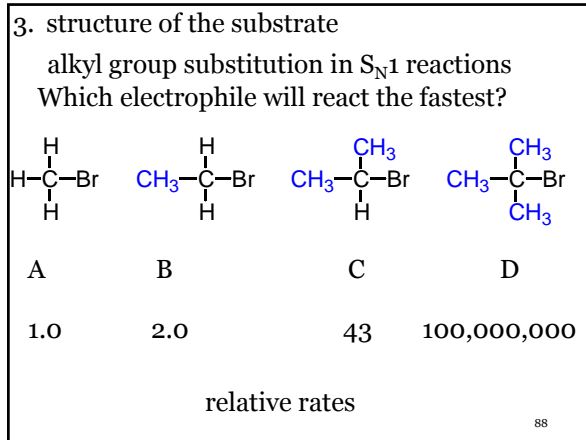
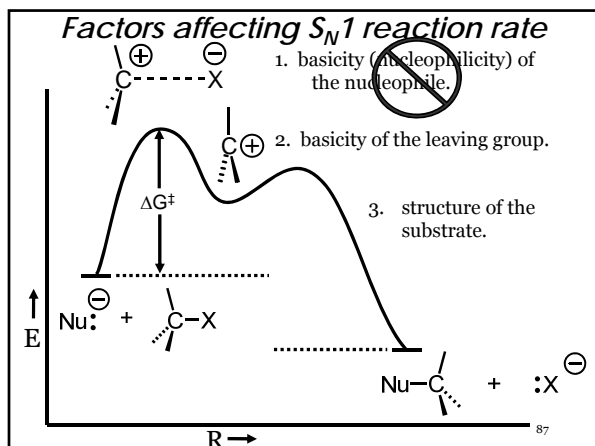


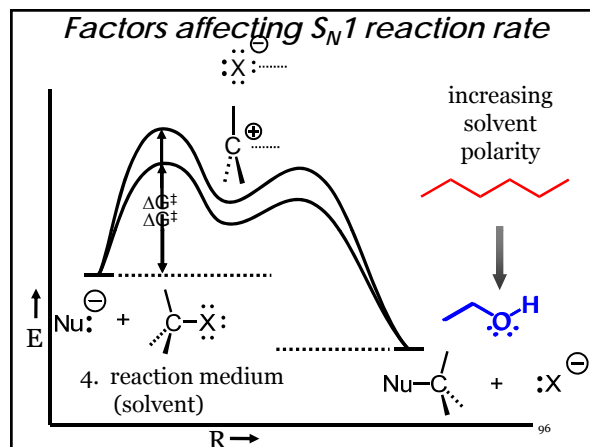
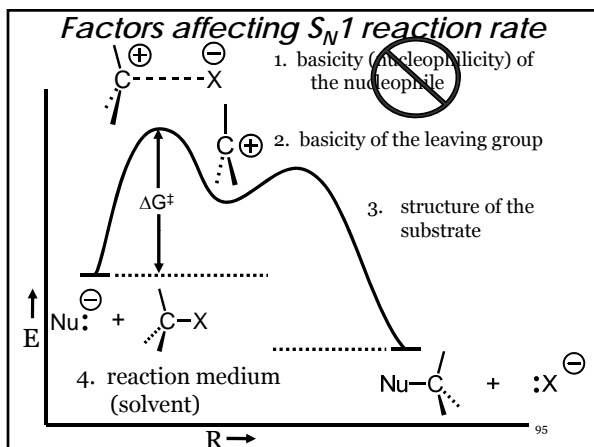
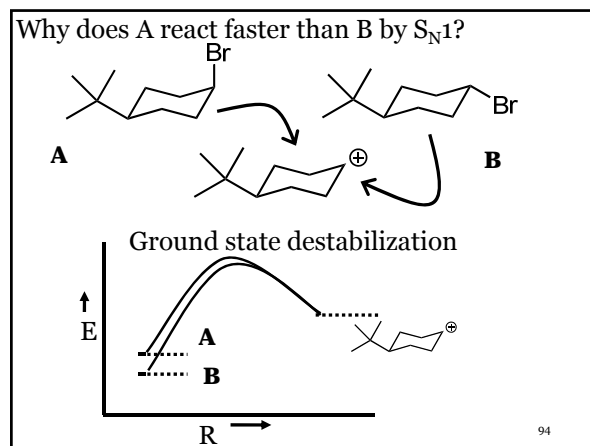
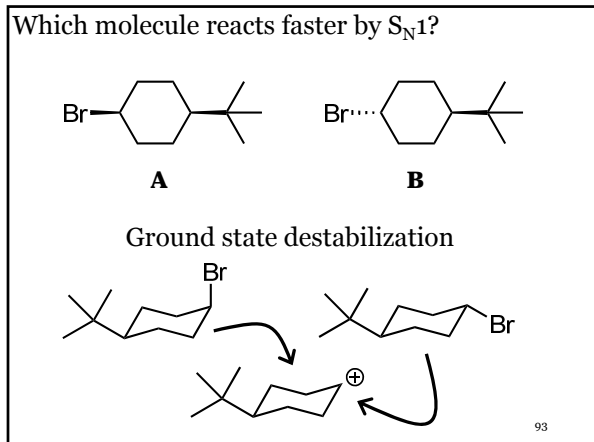
An alternative reaction mechanism:



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The effect of the reaction medium (solvent) on S_N1 reactions.

In which solvent is the reaction fastest?

solvent	dielectric constant	solvent polarity	relative rate
A	6	↓	1
B	33	↓	4
C	58	↓	5000
D H_2O	78	↓	150,000

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