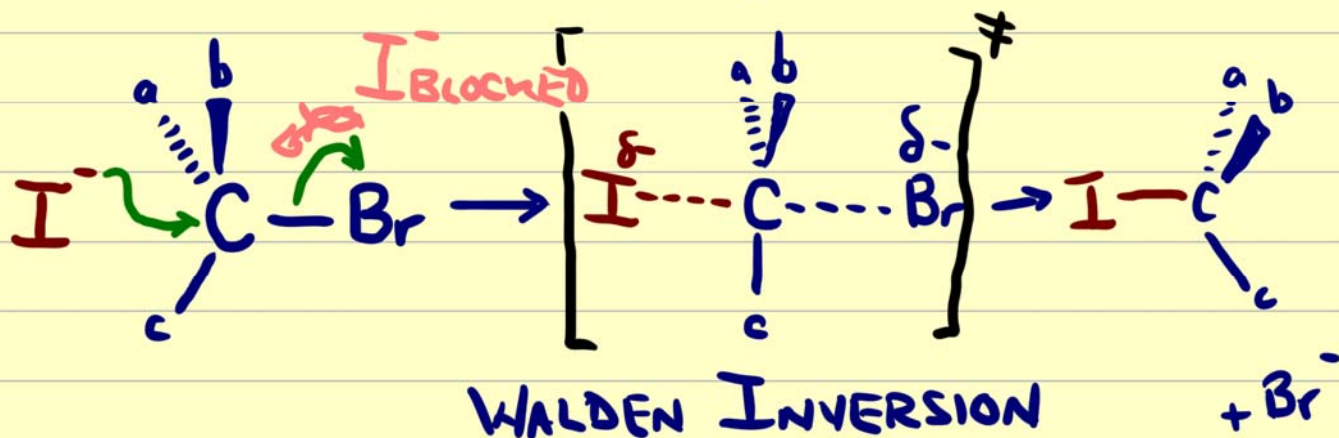
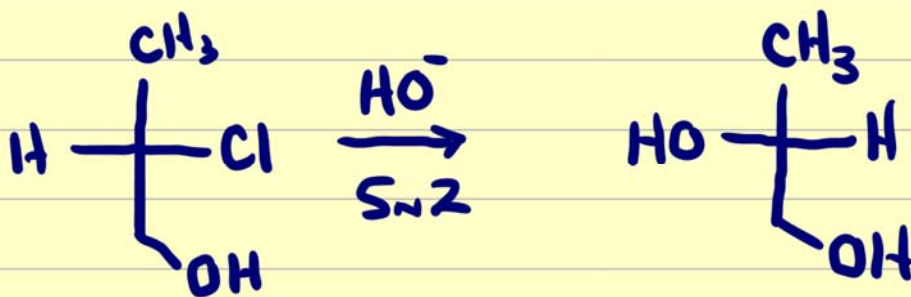
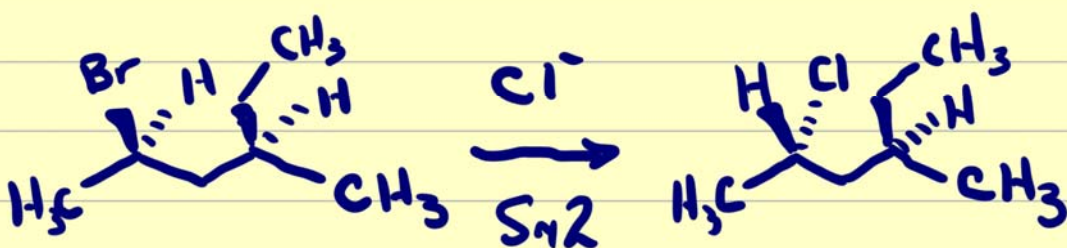


STEREOCHEM. OF SUBST., CONT'D.

S_N2 - INVERSION OF CONFIGURATION AT C UNDER ATTACK



IF PRIORITIES ARE I/Br > c > b > a
THAT (R) → (S).

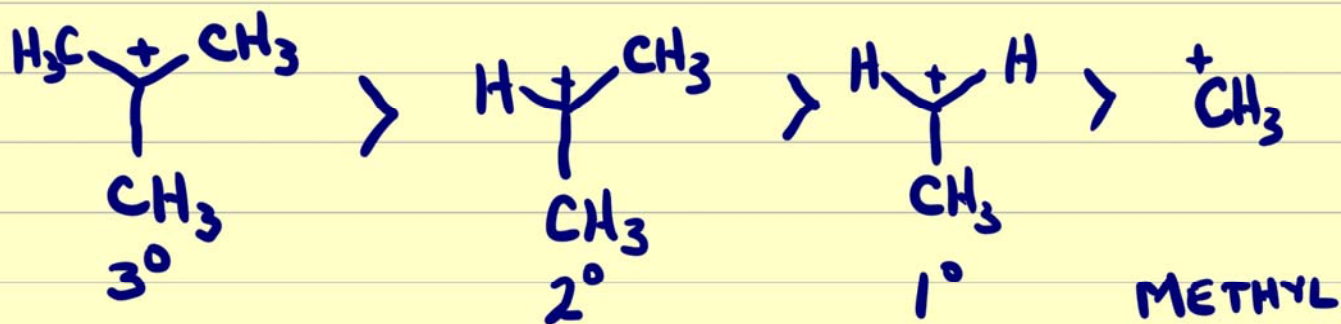


IS IT S_N1 OR S_N2 - HOW DO YOU TELL?
 4 CRITERIA TO CONSIDER

1) CENTRE UNDER ATTACK.

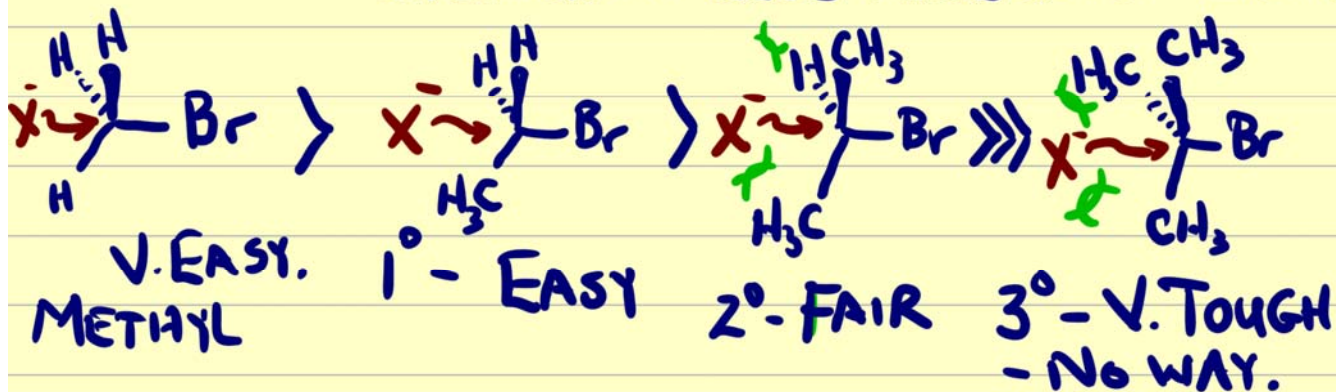
- S_N1 - CRITICAL STEP (SLOW) IS FORM OF CARBOCATION

- CARBOCATION STABILITIES



S_N2 - 1 STEP, BACKSIDE ATTACK

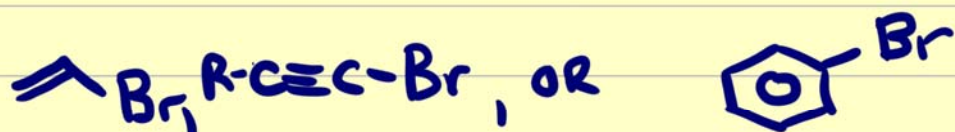
- STERICALLY LESS HINDERED = BETTER



1°, METHYL - USUALLY S_N2

3° - ALWAYS S_N1

TERRIBLE FOR BOTH.



S_N2 - BACKSIDE ATTACK IS BLOCKED

S_N1 - CARBOCATIONS JUST TOO UNSTABLE

- USUALLY NO REACTION.

GOOD FOR BOTH



BENZYL



ALLYLIC

2) NUCLEOPHILE:

S_N1 - DOESN'T HAVE TO BE THAT GOOD.

- BECAUSE IT'S NOT IN R.D.S.

- GOING FROM GOOD TO A MEDIOCRE NUCLEOPHILE DOESN'T MATTER

SN2 - Nu⁻ MATTERS A LOT

- IT'S IN R.D.S.

- GOING FROM MEDIOCRE TO GOOD Nu⁻
SPEED US SN2 A LOT.