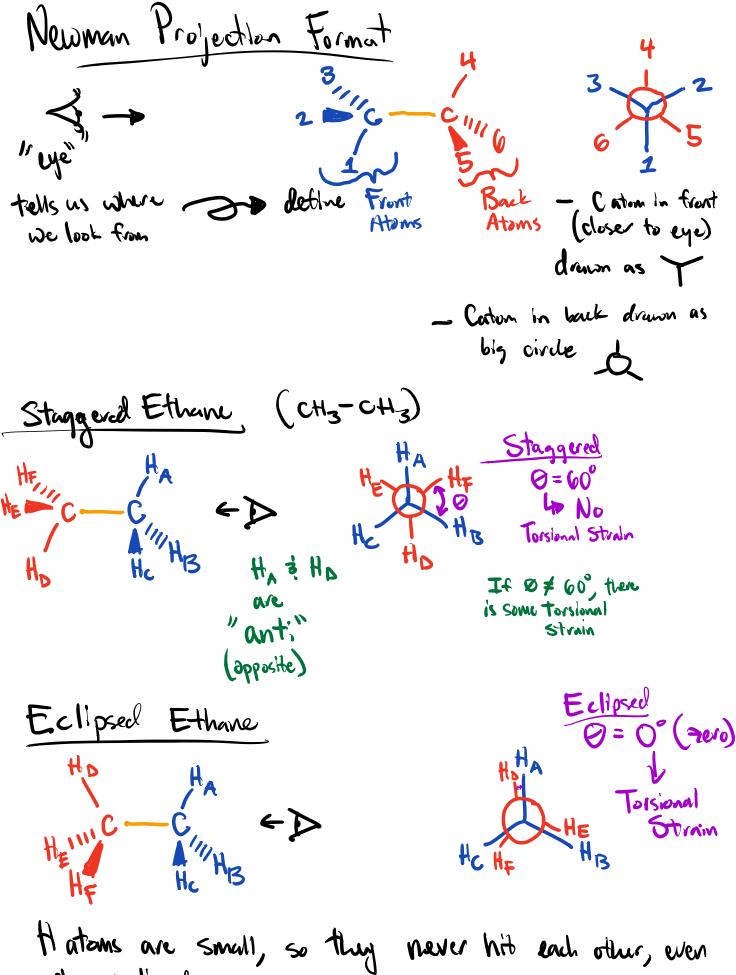
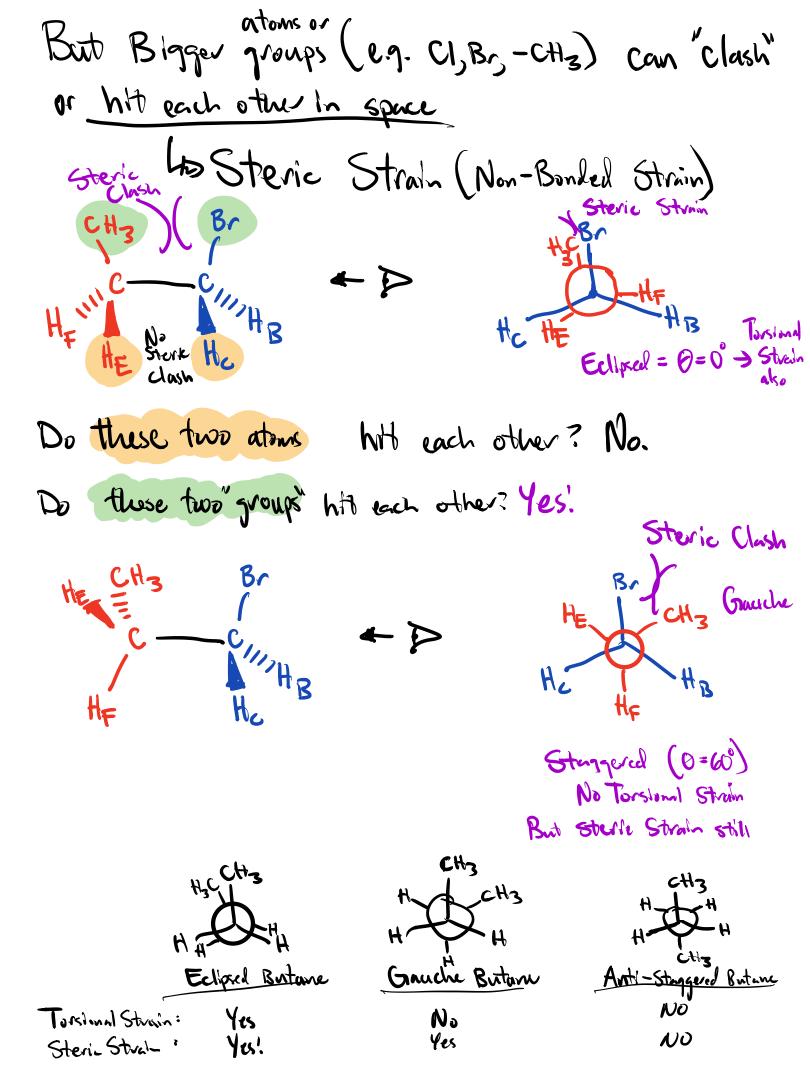
MTW
Today: Strain Stability, Newman Projections Chairs Stereochem
Energy 3 Stability are interrelated 3 Types Les influenced by strain 3 Types 3 Types 3 Types 3 Types 3 Types 3 Stability 3 Ring Strain (Angle Strain Molecule 1 Molecule 2
- More Strain > Higher in Energy 3 Less Stable - Strain is influenced by Confermation 4330 arrangement of in a molecular resulting rotations around bonds

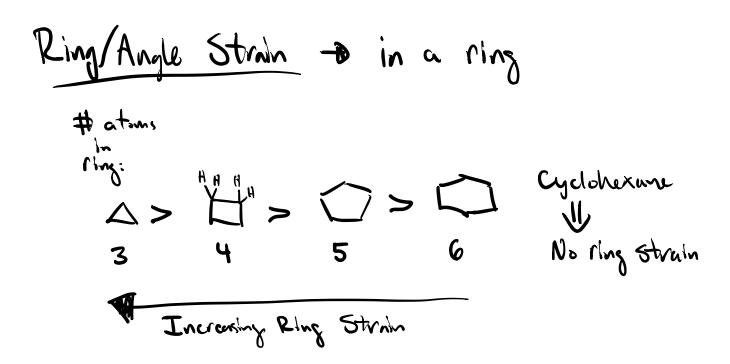
One convienent way to look at contormation (in turn stability & strain) is w a Newman Projection, where wo look down/dong a specific tonk.

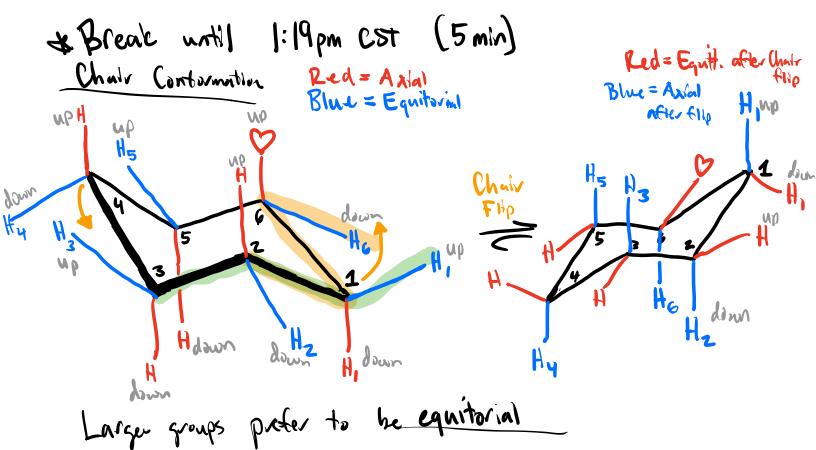


when eclipsed

40 HA ? Ha above don't clash" in space 40 No Stevic Strain between 2 Hatems!







Draw 2 Chair Conf. For the following is circle
Which predominates at equilibrium:
dech down CHZ CHZOH trans
3 5 6 Gc.cw. CH20H
3 6 CH ₃ OH
CH ₃ down
H
Another way to I raw the above:
OH W
Stereochemistry
Svorocrams 11 9
Isomer > Same Chemical Grands
CyH100
Constitutional Isomers > same indecular formula but different connectivity
C4H,00 ~0~ +3H
Stereo isomers -> Same constitutional isomers, same bond connection but different arrangement of groups in 30 son

CzHyOFBr on their mirror image.

Chiral Center: 4 different groups around a tetrahedra

Chiralty: Phenomenon for objects that are not superimposible

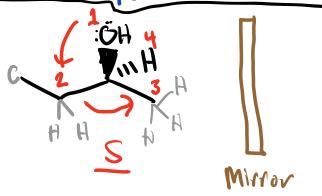
Enanthoners = non-superimposable mirror images

Diastercomer = Stereokomers that aren't enanthmers heed at least 2 chiral centers

Meso Compound = 2 chiral centers, but their is not chiral object Each chiral center has the same 4 groups

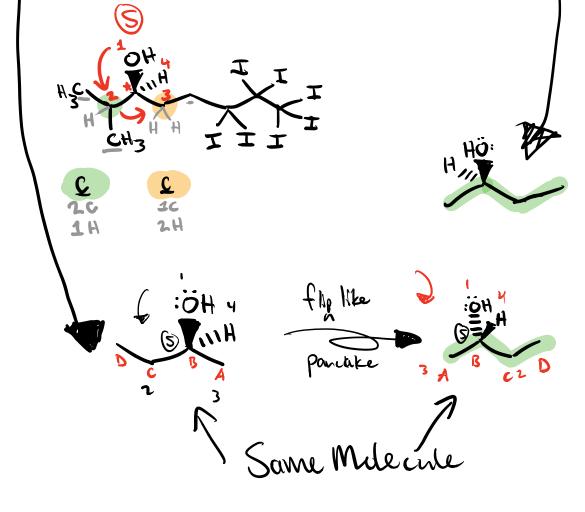
Assigning Chirality > assigning R/S Los playing card games 1st point of difference (I) When burst priorty group is in back (=)

Clockwise Counterclockwise

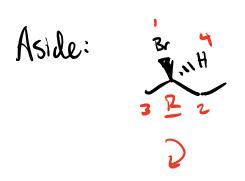


The Mirror image of P is S.

The Mirror image of 5 is R.



2 lowest priority group is in front
"looks R, but lowest priority is in front, so its 5"

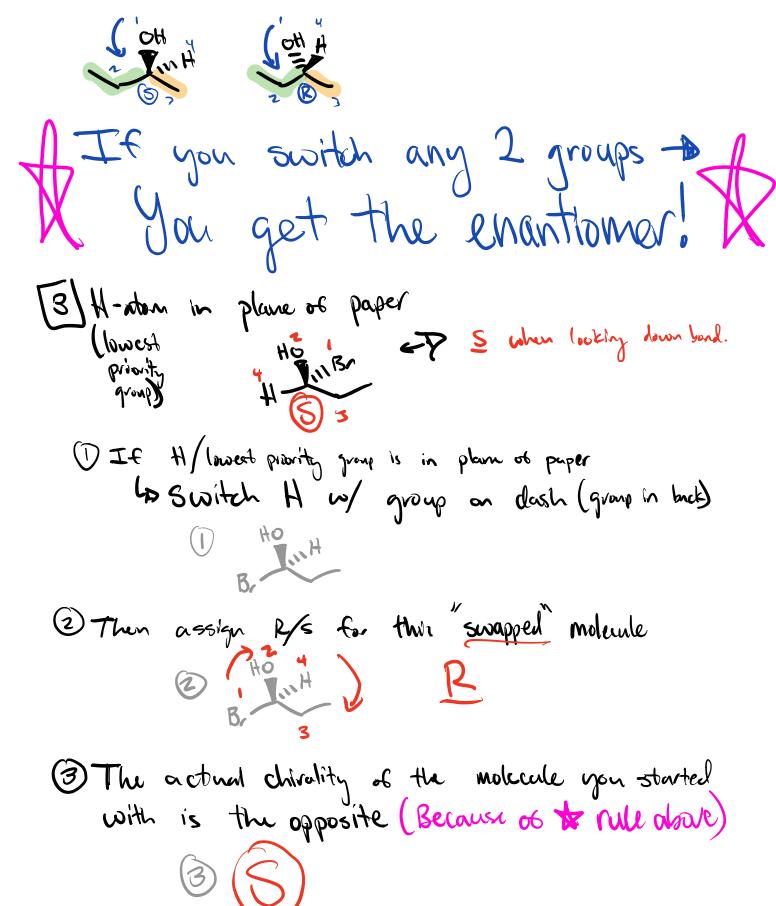


H Br

Wedge on Lett vs. Right

No différence in R/S

Some molecule



The like parache

The like parache

The first Rotations

There is a single parache

There is a single