Today

Sections 3.8 – 3.10 Structures and properties of organic molecules

Sections 3.11 – 3.15 Rotation about single C–C bonds and conformations of cyclohexanes Next Class

Sections 4.1 and 4.2 Isomers and the stereoisomers of alkenes

Sections 4.3 - 4.8 Chirality

Bring Modeling Kits to Class

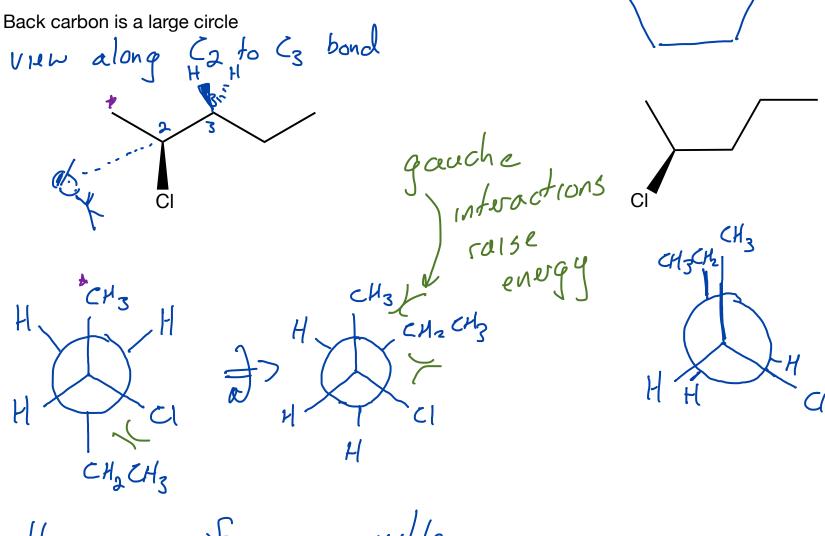
Newman Projections

Drawn as though one is looking along a bond

Front carbon is a where three bonds come together

eclipsed butane

Section 3.11

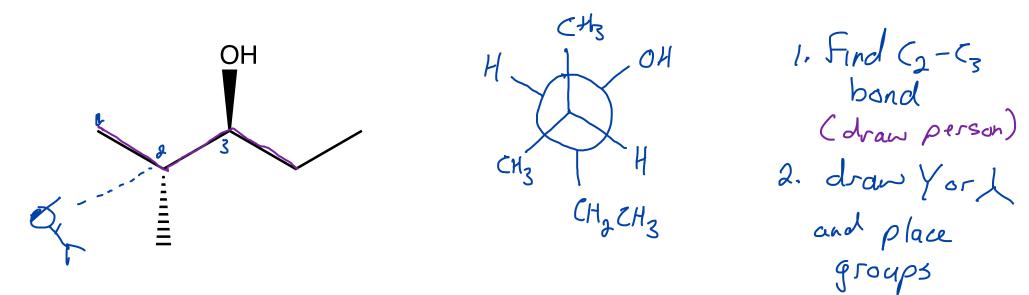


this is one of many possible

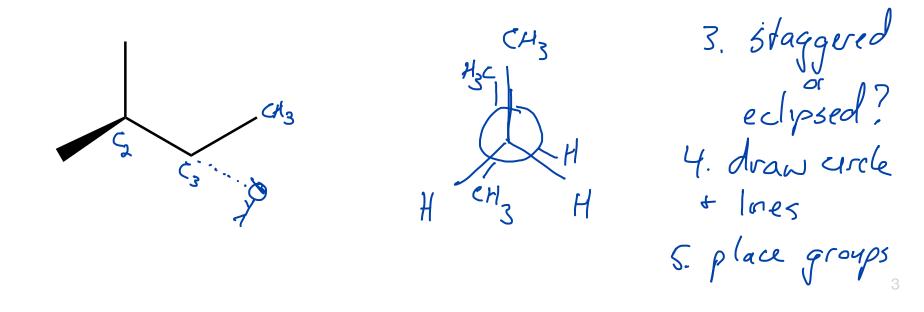
https://www.westfield.ma.edu/cmasi/organic/newman/newman-plain.html

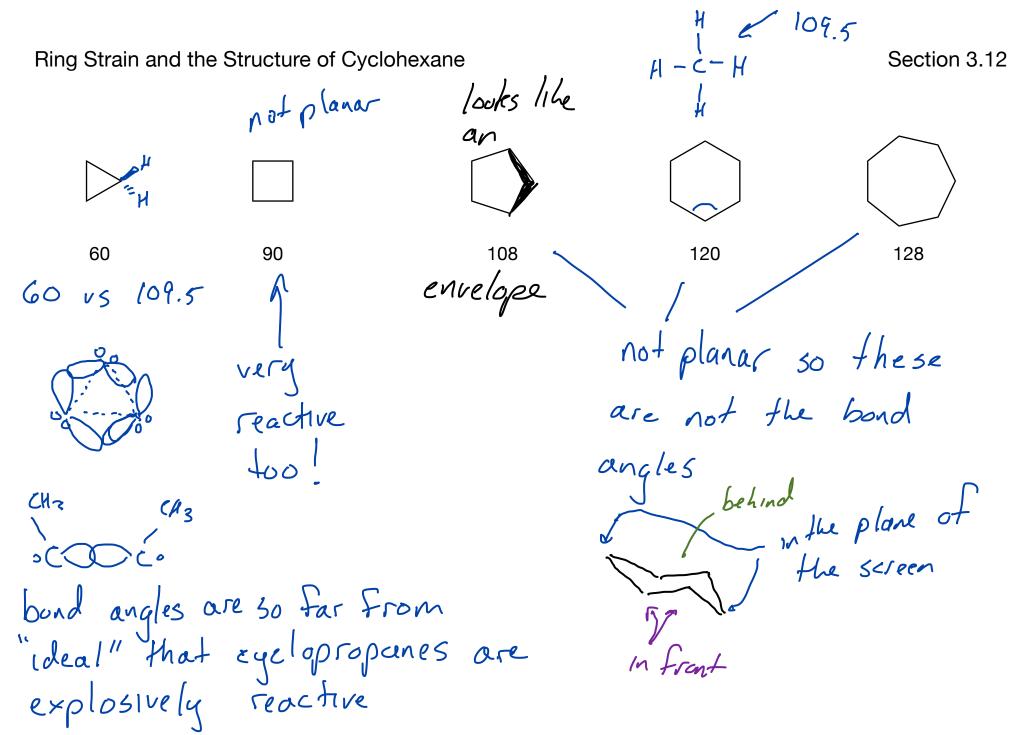
Practice Using Newman Projections

Draw the Newman projection along the C₂ to C₃ bond in the following structure

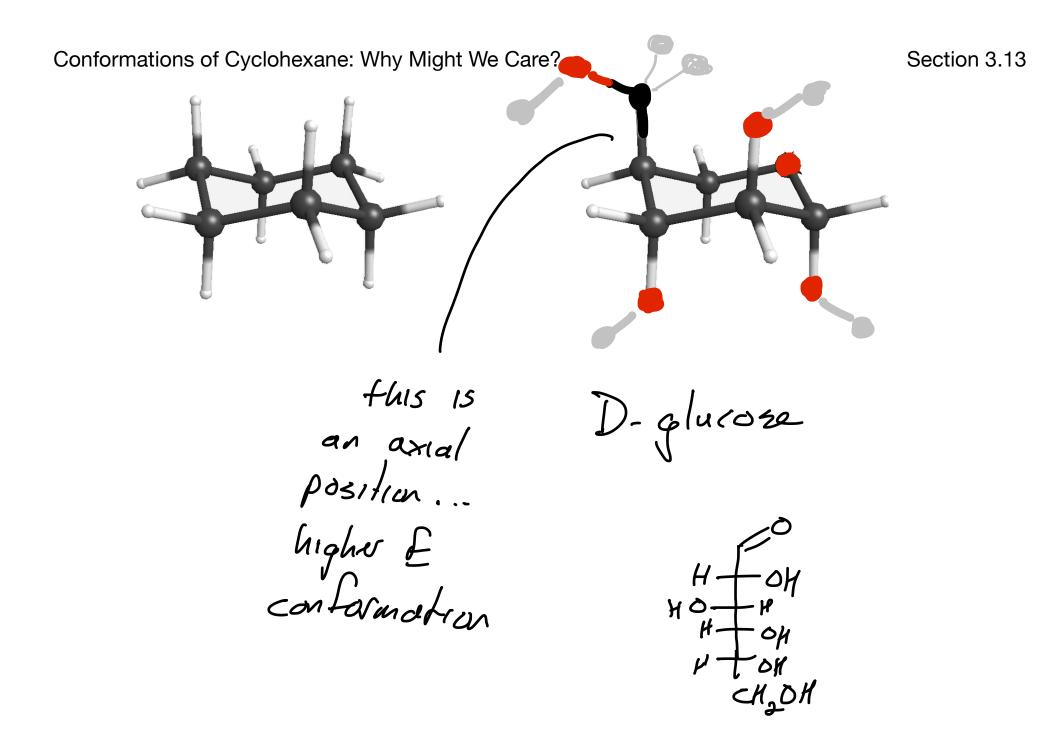


Draw the Newman projection along the C3 to C2 bond in the following structure





https://www.westfield.ma.edu/cmasi/organic/cyclohexanes/cyclohexanes-plain.html



https://www.westfield.ma.edu/PersonalPages/cmasi/organic/cyclohexanes/cyclohexanes-plain.html

ar ax Char is the lowest energy conformation arial positions have gauche intractions with Fing Chy's + other axial positions. Large groups in axial positions are higher in E Partial ring Flips convert chau to twist boat Ring Flips convert one chair to another chair conform-ation and axial + equitorial positions change places.

https://www.westfield.ma.edu/PersonalPages/cmasi/organic/cyclohexanes/cyclohexanes-plain.html

Conformations of substituted Cyclohexanes

1,3 - dimethyl cyclohexane Section 3.14, 3.15

