(25) Today Next Class (26)

Sections 5.1 – 5.5

Chirality and Determining the Configuration of Diastereomers, N,P, and S, and Prochirality Chiral Centers

(27) Second Class from Today

Third Class from Today (28)

Chap 6

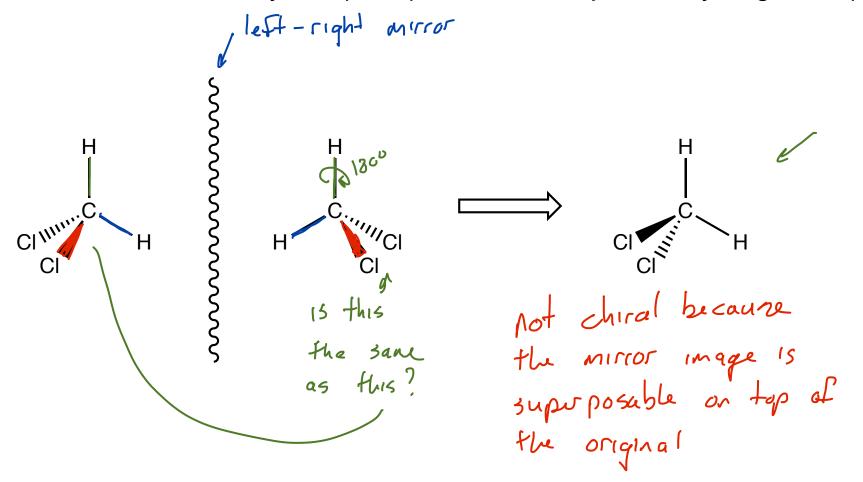
Chap 6

Rework test 2 by Monday, Nov. 20.

What makes your feet chiral?

A chiral object has a non-superposable mirror image

Superposable mean that when you superimpose the two objects everything lines up.

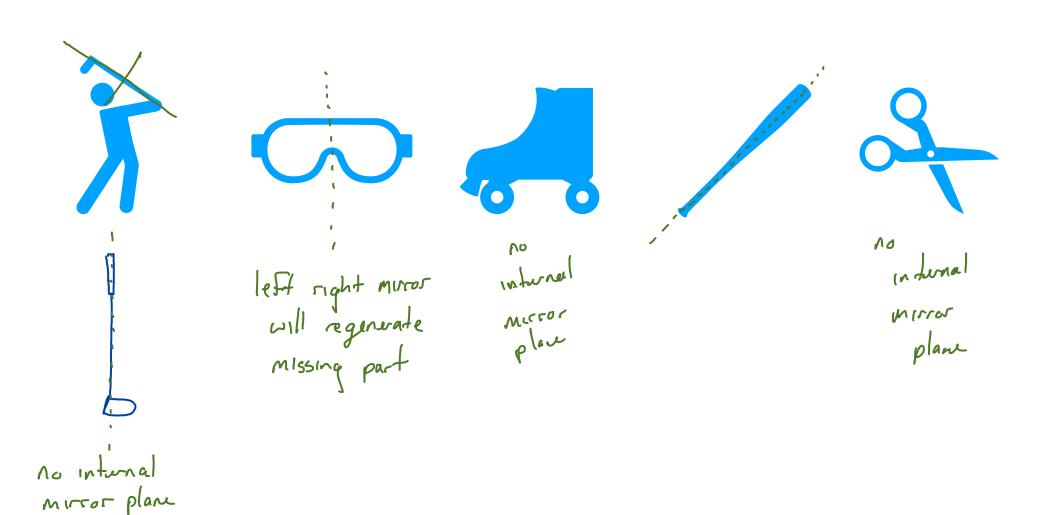


Chirality: Chemistry for Handedness

Chop in half + regenerate the missing part

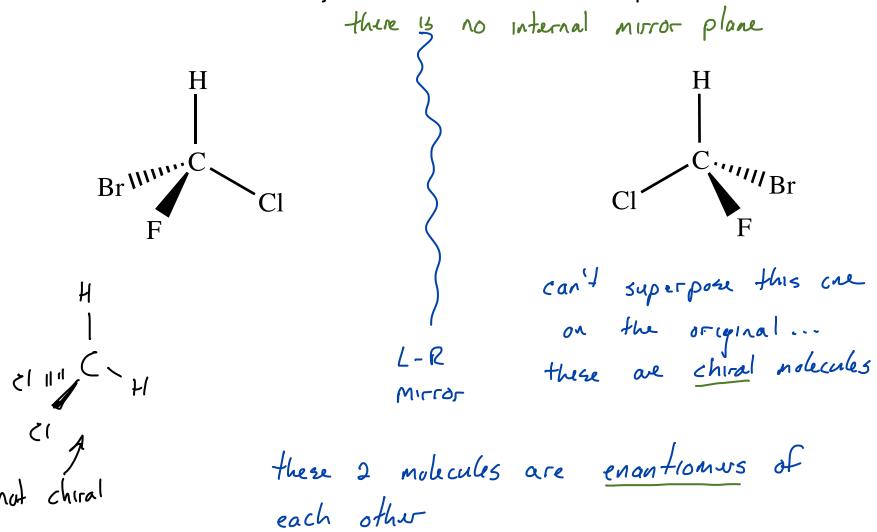
with a mirror?

A chiral object lacks an internal mirror plane*



^{*}Technically it's an improper axis of rotation, but a mirror plane is an S₁ and a center of inversion is an S₂

A chiral object lacks an internal mirror plane

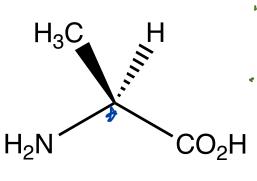


plants

HO HO HO OH

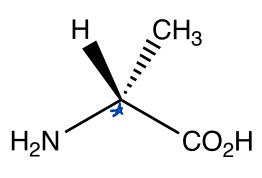
D-glucose Ø¢ per gram enantioners of each Synthetic

> L-glucose \$103 per gram



· Chiral
· don't contain a
Mirror plane
· they are
enantiones

of each
other



L-alanine

we build proteins with this one

the Hold Bring F

D-alanine

bacteria make zell walls with this

4 different groups
bonded to a Cwill
make the Ca
center of chirality

Practice Recognizing centers of chirality

Section 5.1 – 5.5

