

## Video Homework for Topic I.19:

### Fischer Projections

*Recommended reading for this topic:*

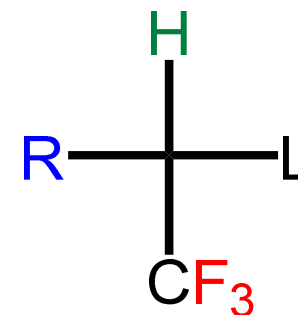
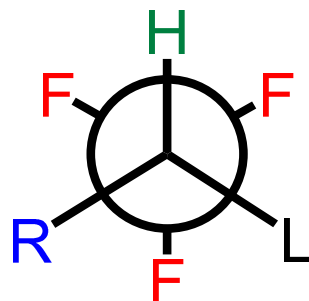
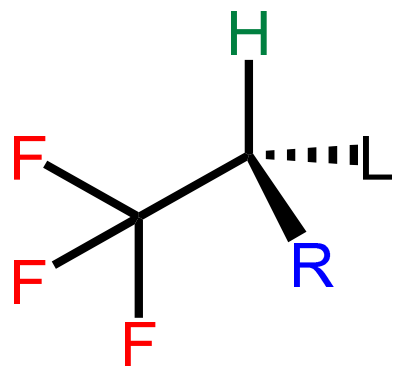
Lesson I.19 in *Organic Chemistry 1 Primer 2018*,  
by Rhett C. Smith, Andrew G. Tennyson and Tania Houjeiry

*Additional Videos and how to match videos to your course text book:*

ProtonGuru.com

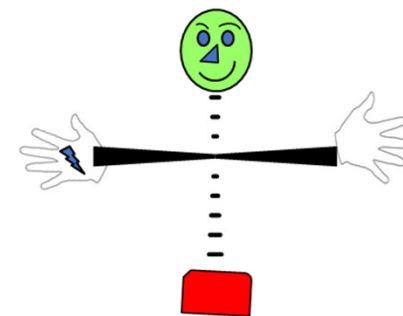
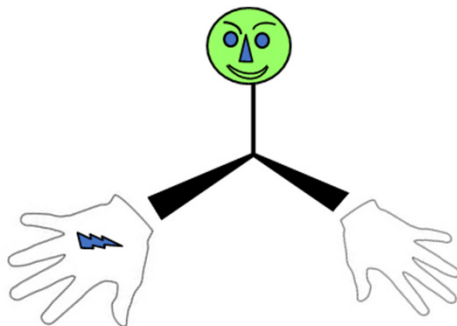
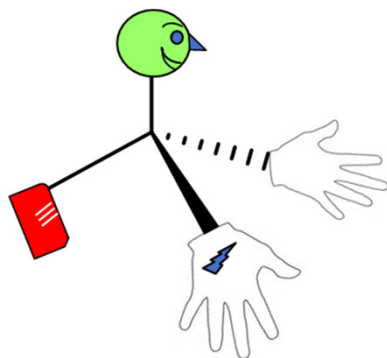
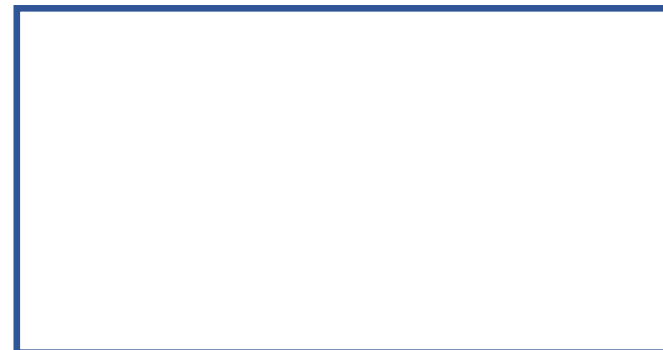
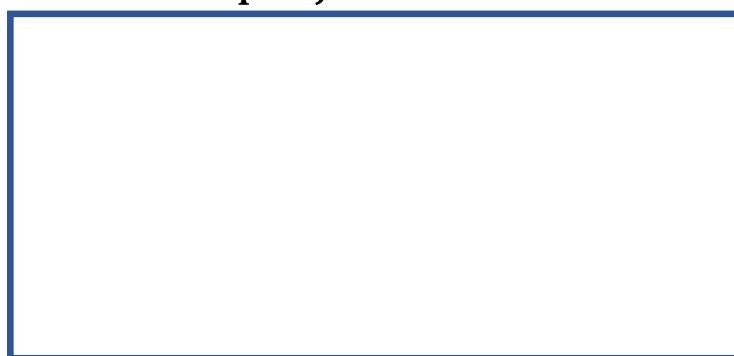
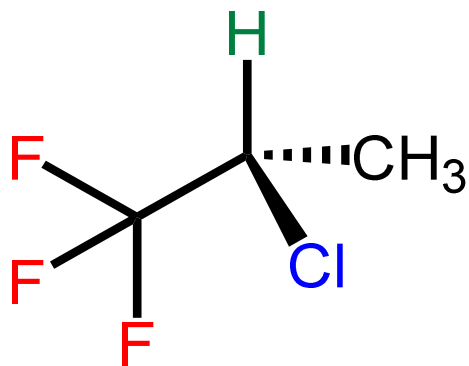
# Relating Handedness to Chirality

We have three common ways to represent the 3D shape of molecules now:



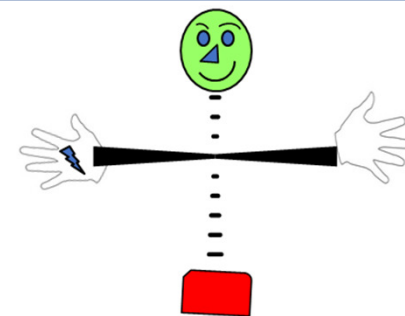
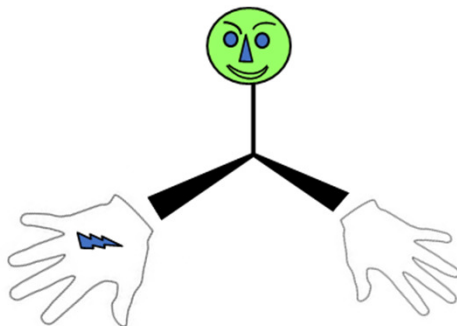
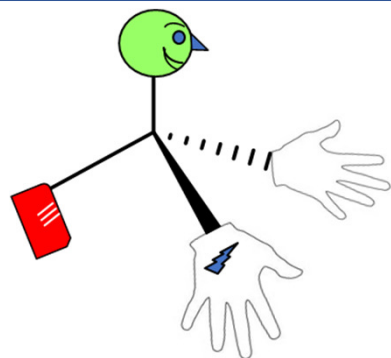
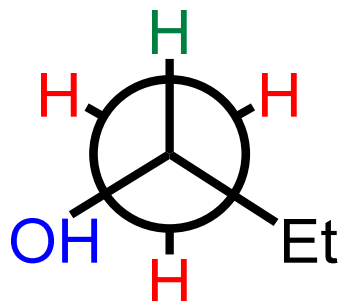
# Relating Handedness to Chirality

Say we are given this molecule in the usual wedge and hashed line structure. Try to draw the Newman and Fischer projections for this molecule.



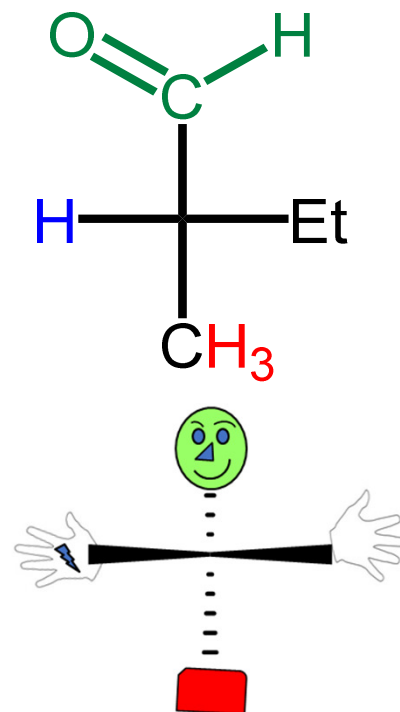
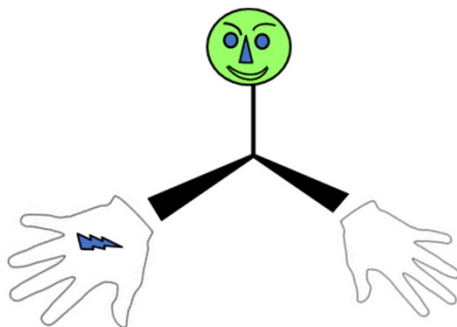
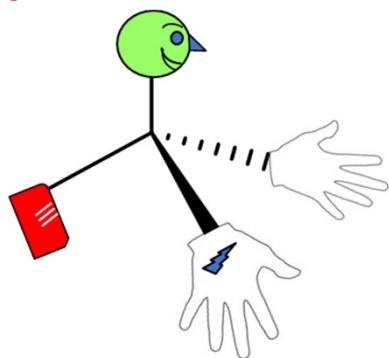
# Relating Handedness to Chirality

Say we are given a Newman projection. Try to draw the Fischer projection and the wedge/hash line structure for this molecule.



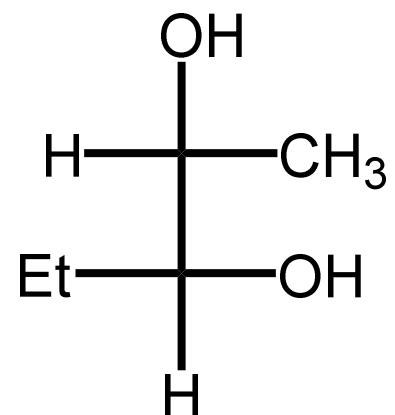
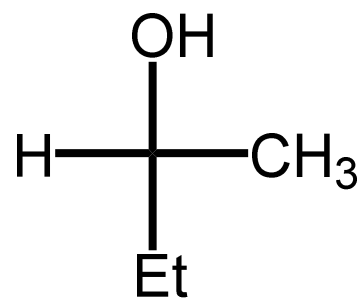
## Relating Handedness to Chirality

Say we are given a Fischer projection. Try to draw the Newman projection and the wedge/hash line structure for this molecule.



# Fischer Projections

Assign *R*- and *S*- labels to all of the stereogenic centers in these molecules:



## Fischer Projections

Redraw this molecule as a Fischer projection and assign the molecule as *R*- or *S*-.

