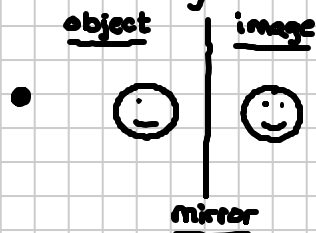
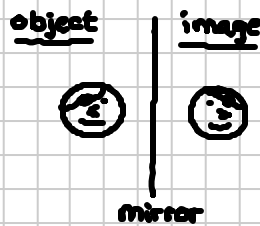


Optical Isomers: Molecules whose mirror image cannot be superimposed

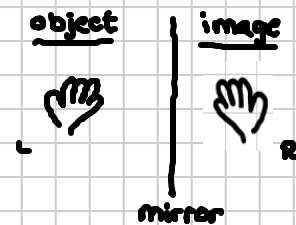
Mirror Images



Superimposable: ~~Y~~/N  
optical isomers: Y/~~N~~

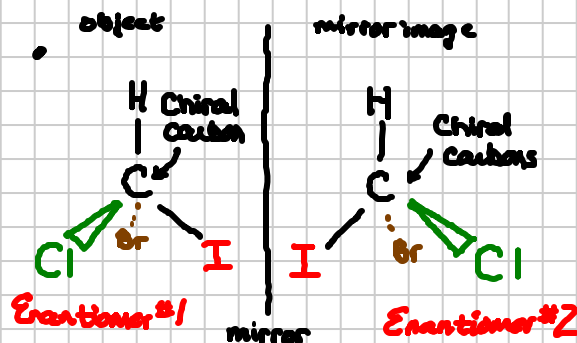


Superimposable: Y/~~N~~  
optical isomers: ~~Y~~/N

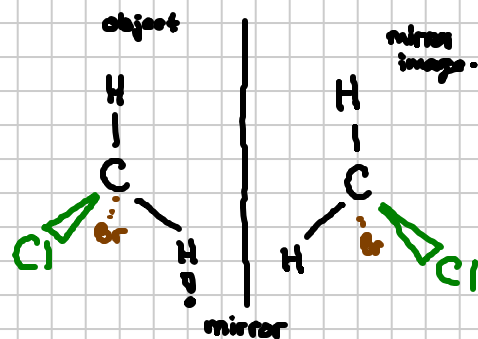


Superimposable: Y/~~N~~  
optical isomers: ~~Y~~/N

... Applied To Molecules

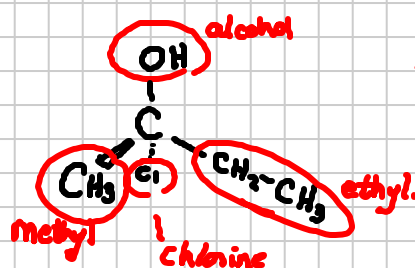
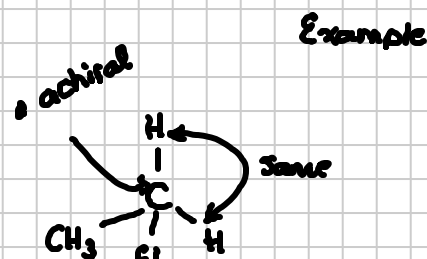


Superimposable: Y/~~N~~  
optical isomers: ~~Y~~/N  
Enantiomers: ~~Y~~/N



Superimposable: ~~Y~~/N  
optical isomers: Y/~~N~~  
Enantiomers: Y/~~N~~

Optically active carbons (chiral) always have 4 different groups attached to 4 corners.



4 diff groups!  
⇒ Chiral carbon  
⇒ optical isomers.