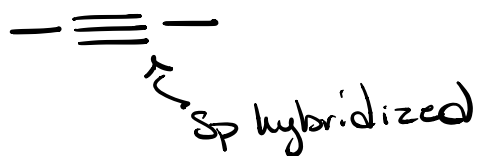


Welcome to Chem 12B!

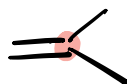
Alkynes



sp^3



sp^3 hybrid



sp^2



sp^2 hybrid

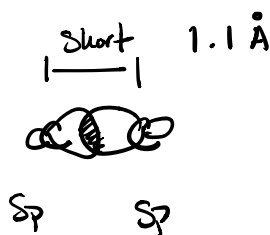
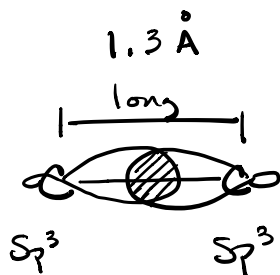


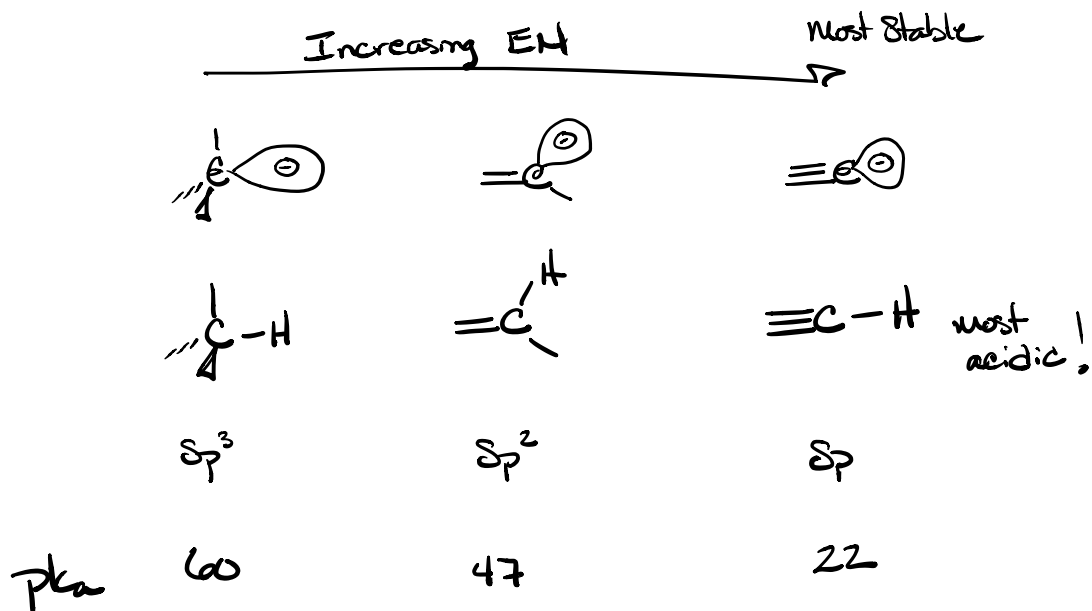
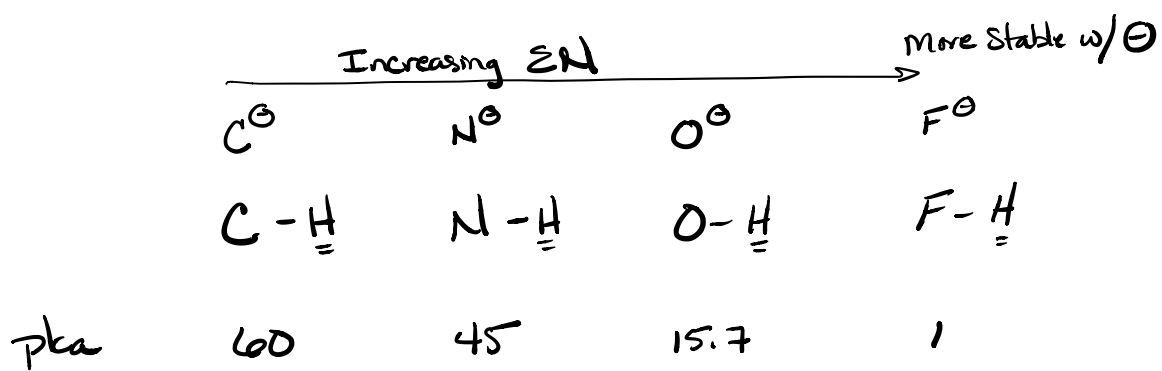
sp



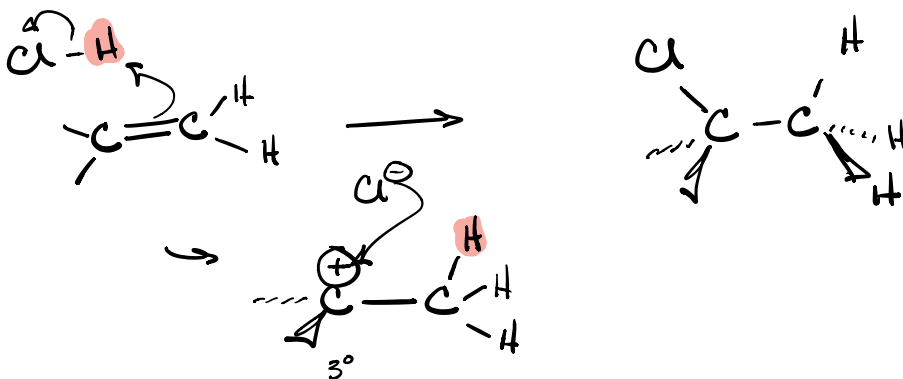
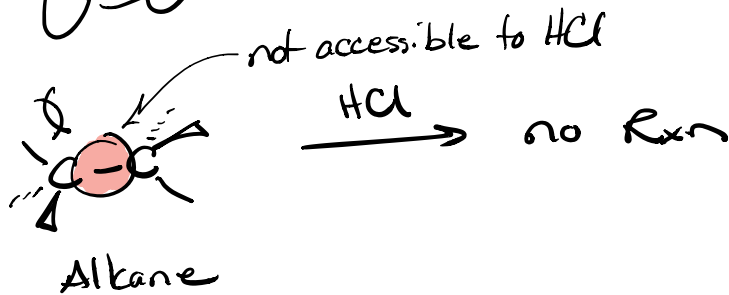
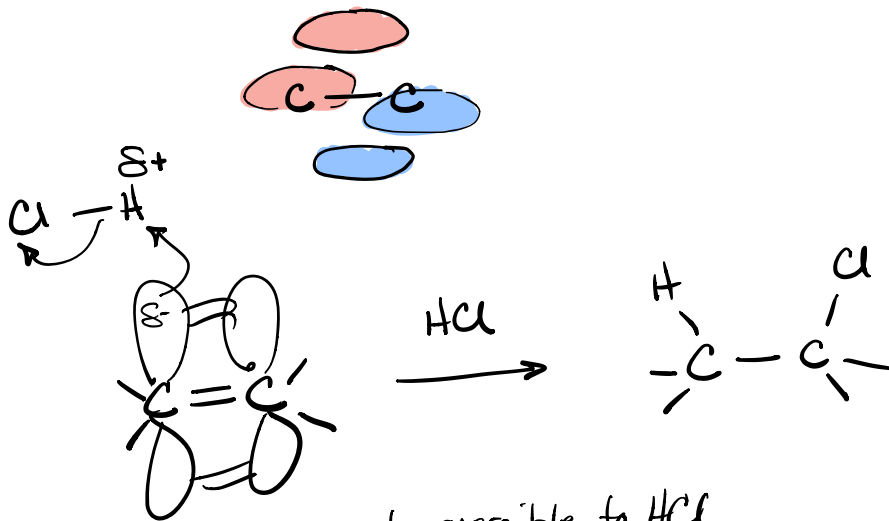
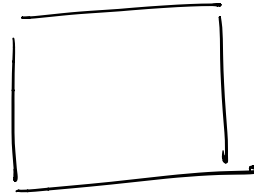
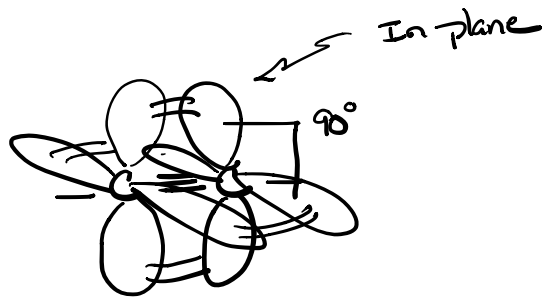
sp hybrid

node \longrightarrow length

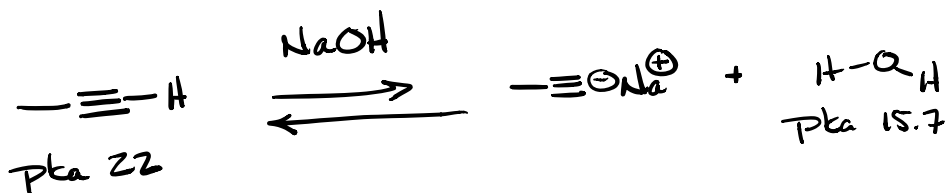
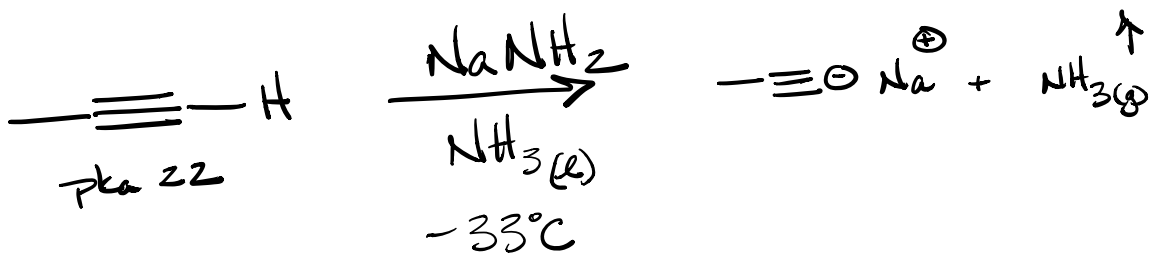




Structure of Orbitals

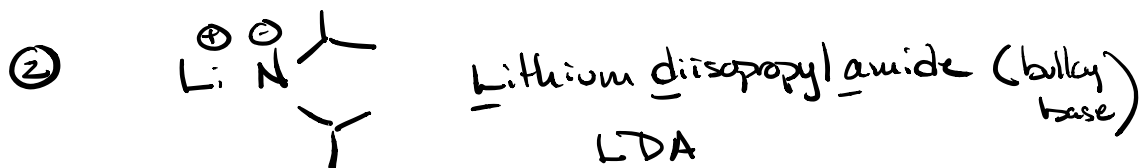
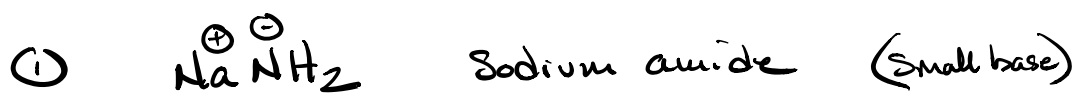


Acidity



NaOH not strong enough base to deprotonate an alkyne

Strong amine bases



Carbon nucleophile!

Allows for new C-C bond formation