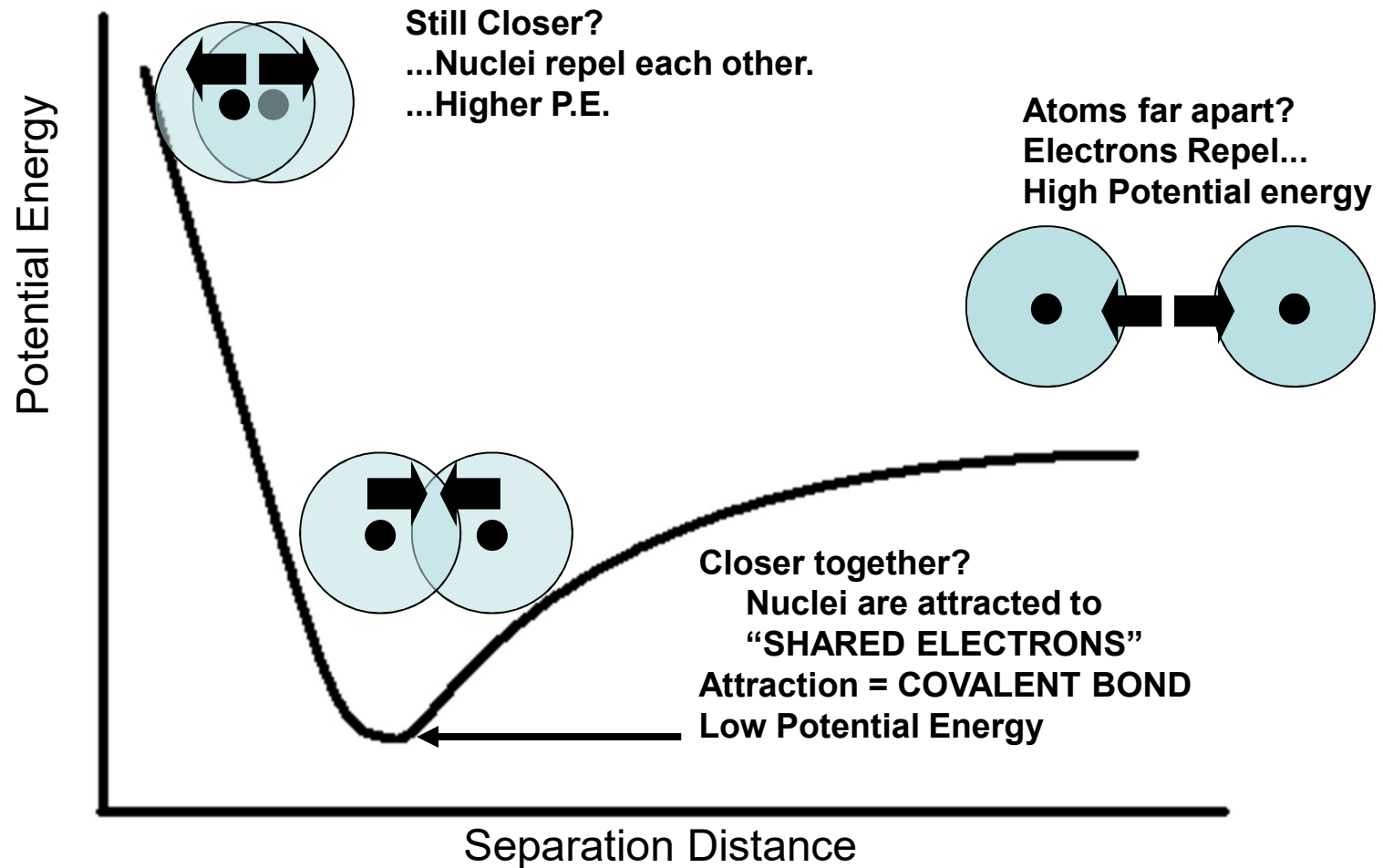
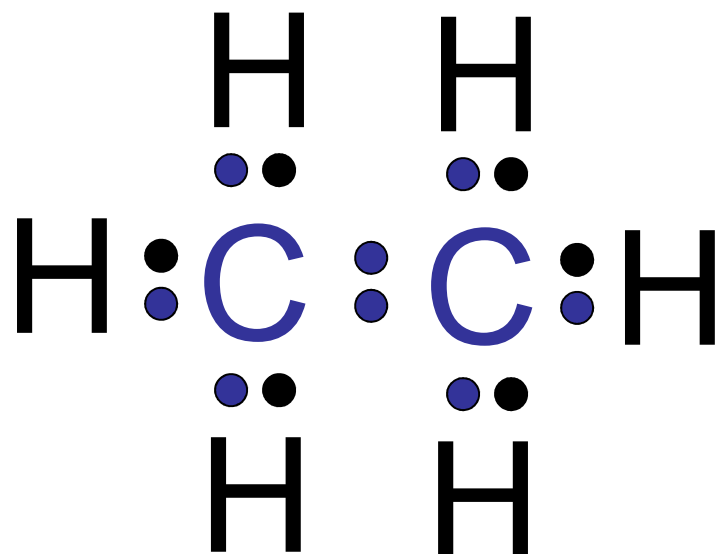


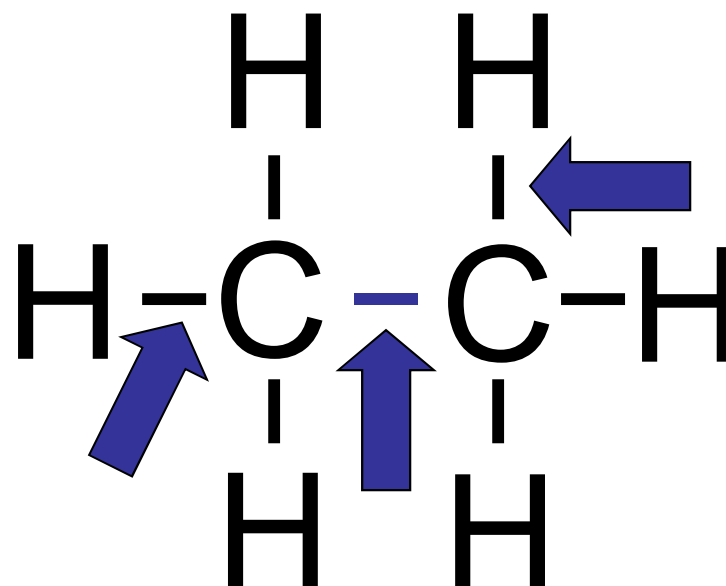
# Covalent Bonding Review



# Introduction to Single Bonds



...or...



*Ethane*

Single Bond

“ $\sigma$  bond” (*sigma bond*)

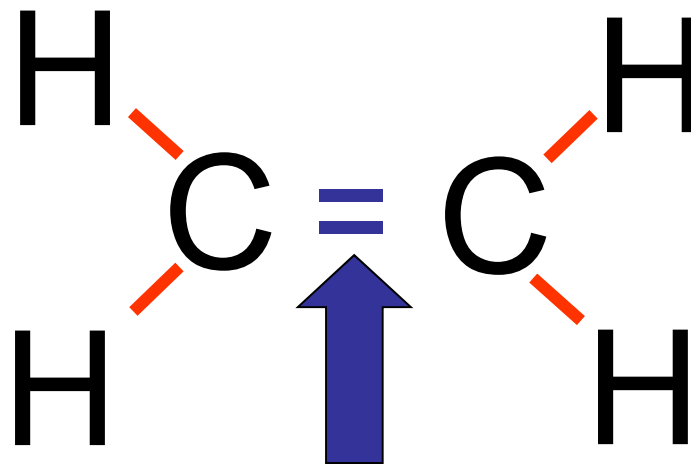
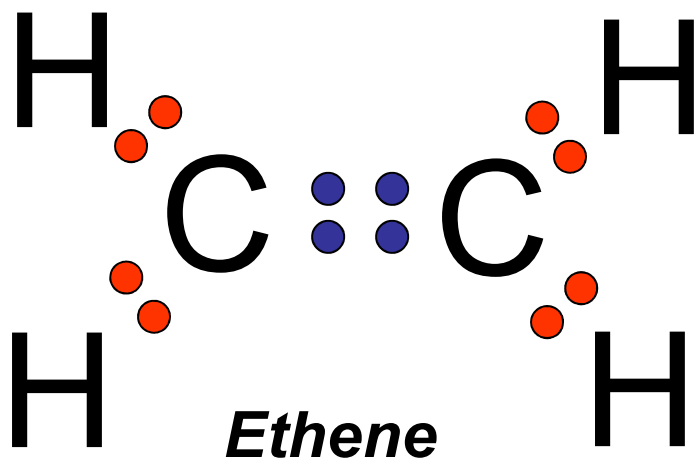
...Bond Order = 1

Bond Order: *The number of electron pairs being shared by any pair of bonded atoms.*



# Introduction to Double Bonds

...or...



Double Bond contains...

1 $\sigma$  bond  
&  
1 $\pi$  bond

...Bond Order = 2

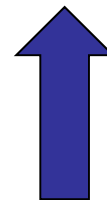


# Introduction to Triple Bonds

...or...



*Ethyne*



Triple Bond contains...

1 $\sigma$  bond

2 $\pi$  bond

...Bond Order = 3

