(6) **Today**

Sections 1.5-1.10 Valence Bond Theory

Sections 1.12 Drawing Chemical Structures

Next Class (7)

Sections 2.1 - 2.4 Polar Covalent Bonds, Formal Charges, Resonance/Electron Delocalization

> Sections 2.4 – 2.6 Resonance/Electron Delocalization

(8) Second Class from Today

Sections 2.4 – 2.6 Resonance/Electron Delocalization

Sections 2.7 – 2.11 Acids and Bases

Third Class from Today (9)

Sections 2.7 – 2.11 Acids and Bases What can we use Valance Bond Theory for?



Which one? Both C atoms are trigonal planar

Why is there free rotation around C to C single bonds but not C to C double bonds?

Which bond is stronger?



Explain observations and make predictions based on the hybridization of an atom

Explain observations and make predictions based on the hybridization of an atom

spa hybrid is spa hybrid is because p orbitals to unhybridized to unhybridized are 1 to p orbital p orbital each other to form the T bond p and p must be parallel two objects that a I to two parallel lines T bond coplanas must be other 2 rinner of the second s - other 2 sp2 HO's

What can we use Valance Bond Theory for?



Explain observations and make predictions based on the hybridization of an atom



of directions = # of HO's needed = # of AO's mixed

Practice







H - H