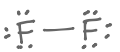
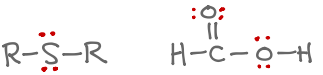
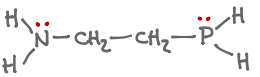
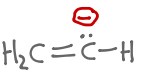
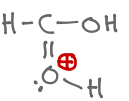
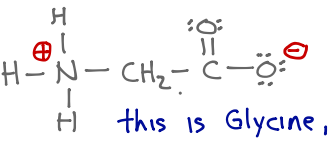
ACTIVITY #3 — SELECTED ANSWERS

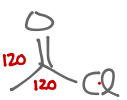
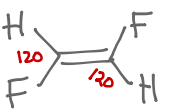
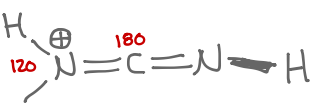
Q#8. 

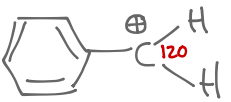
Q#11.  (X = F, Cl, Br, I)

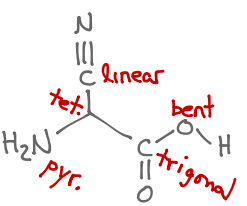


Q#16.   

this is Glycine, a req'd amino acid, as it exists in neutral H_2O or blood

Q#25.   



Q#30. 

Q#34. 1.34 Å C=C

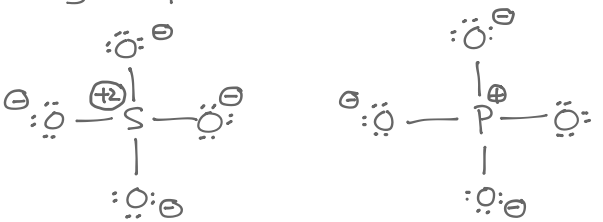
Q#36. $H_3C\overset{1.53}{-}CH_3$ vs. $H_2C\overset{1.34}{=}CH_2$ vs. $\underbrace{HC\overset{1.18}{\equiv}CH}_{Q\#37}$

ACTIVITY #3, PG 2

CHALLENGE

#1A. S P

#1B.



#1C. Lazy? Misinformed?

#2A. "Normal" VSEPR predicts 109° for HCH angle in R–CH_2–R. But our "enhanced" VSEPR says if R–C domains are close together, the H–C domains can be farther apart. ⇒ >109° predicted for HCH angles in △ & □

#2B. The R–C domains are closer together in △ so the HCH angles are predicted to be even larger.

#2C. ⬡ looks "normal" (just like propane). The HCH angles increase as predicted: ⬡ (normal) < □ (odd) << △ (very odd)

#3.