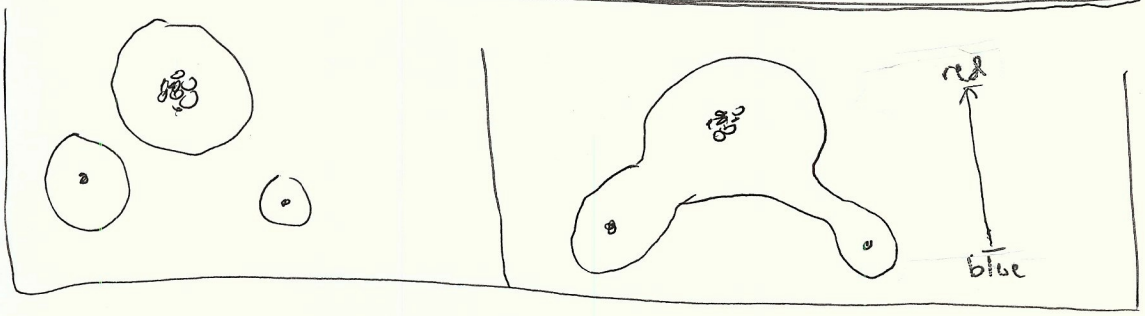


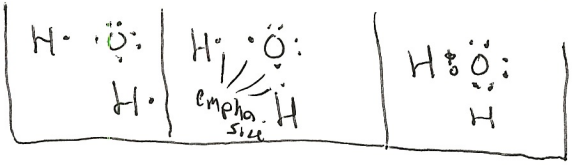
gallery 4.1.1



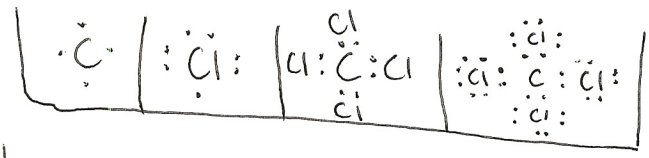
gallery 4.1.2



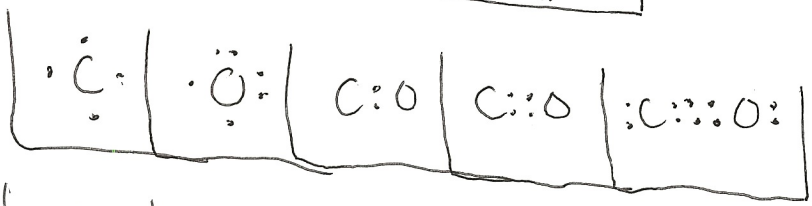
gallery 4.2.1



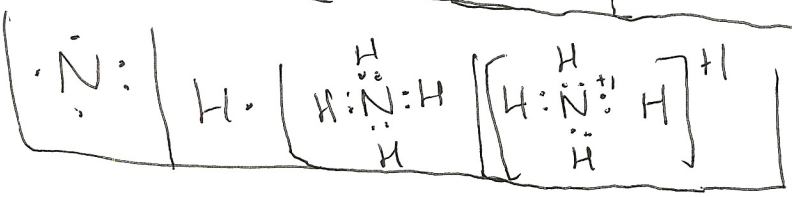
gallery 4.2.2



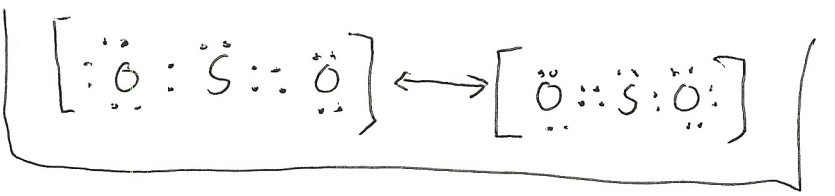
ex. prob. 4.2.1



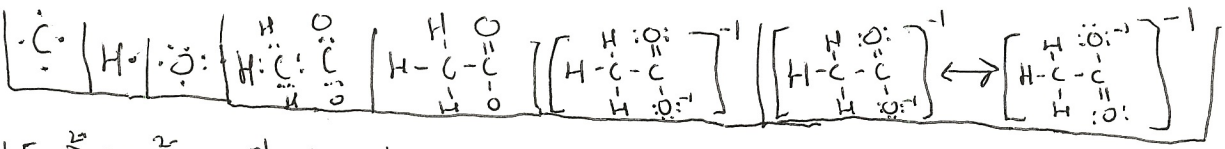
ex. prob. 4.2.2



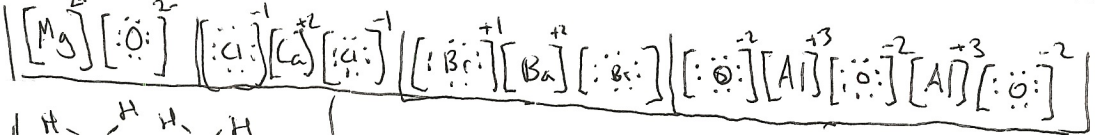
exprob 4.2.3



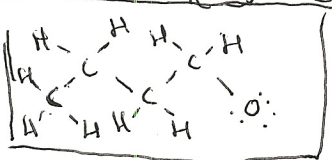
resonance example



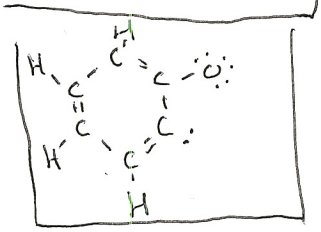
ex. prob. 4.24



ionic bond examples



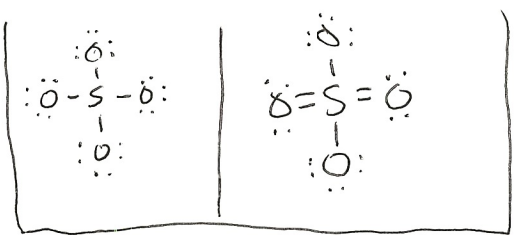
#1 Review 4.2.1



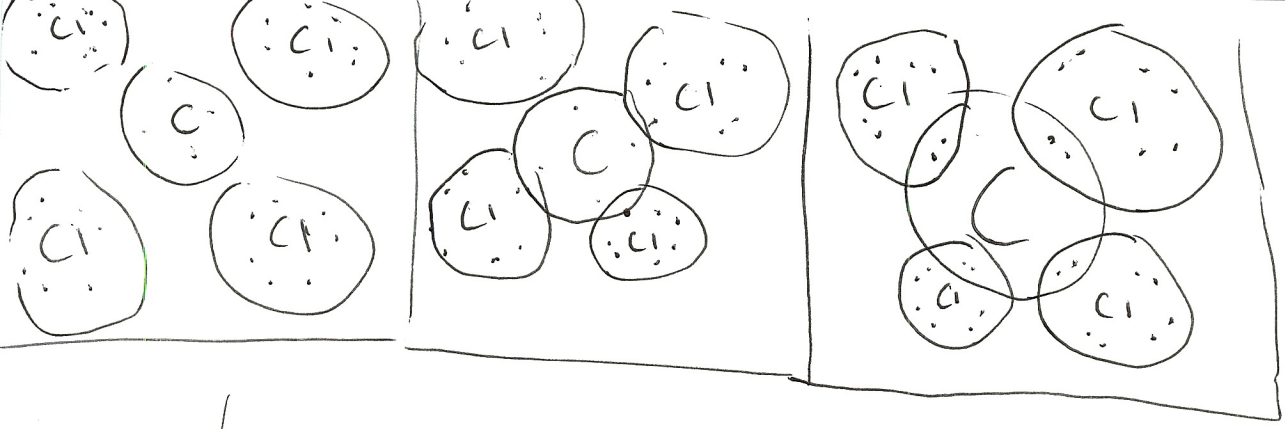
#2 Review 4.2.1

-1 markers on Oxygen and Carbon with lone pair

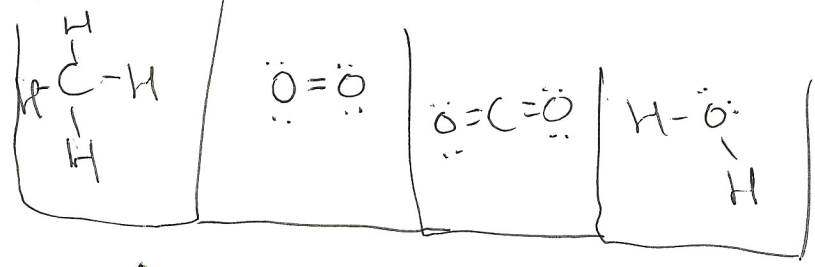
0 markers on any other carbon and any Hydrogen



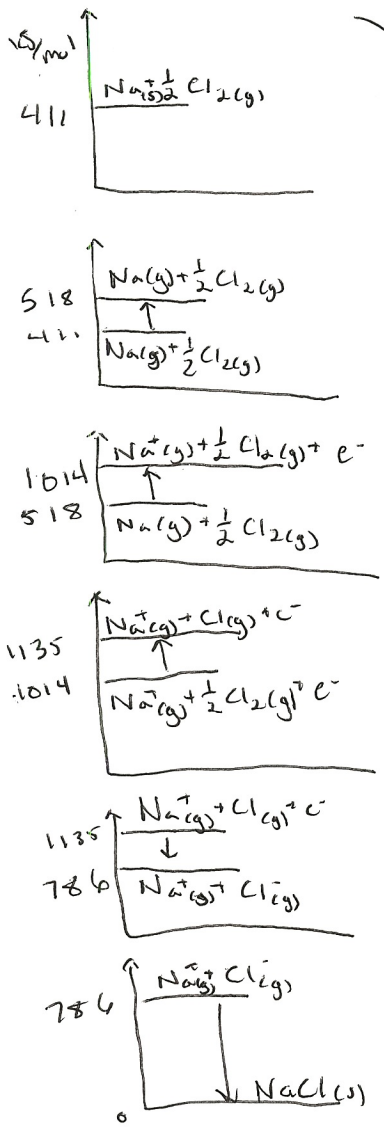
#4 Review 4.2.1



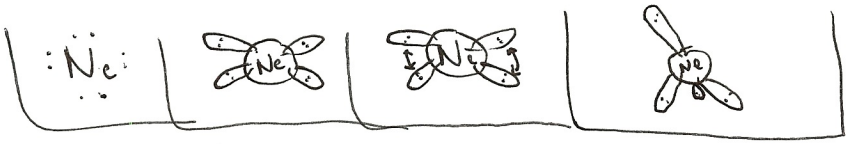
gallery 4.3.1



ex. prob 4.3.1



gallery 4.3.2



gallery 4.4.1

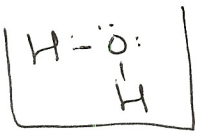
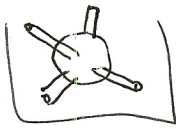
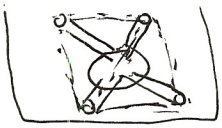


image after gallery 4.4.1



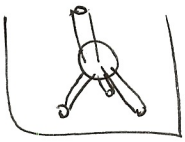
3-D 4.4.1



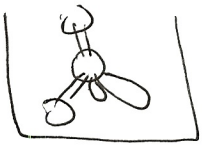
3-D 4.4.2



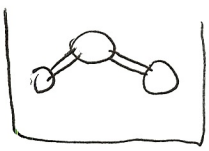
3-D 4.4.3



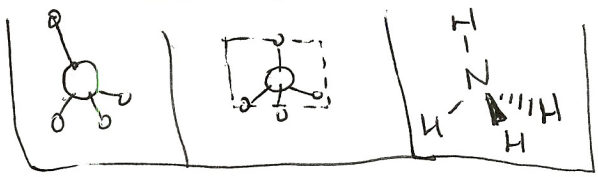
3-D 4.4.4



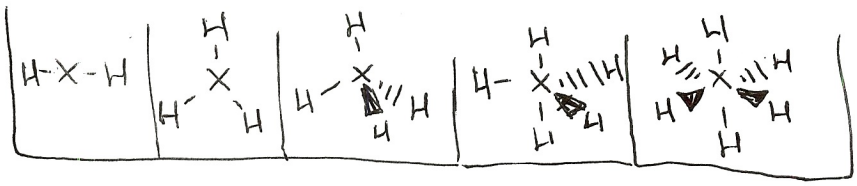
3-D 4.4.5



3-D 4.4.6

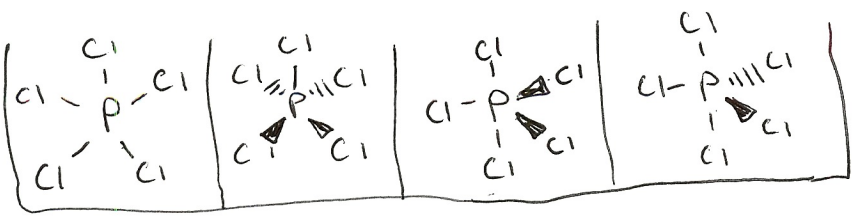


gallery 4.4.2

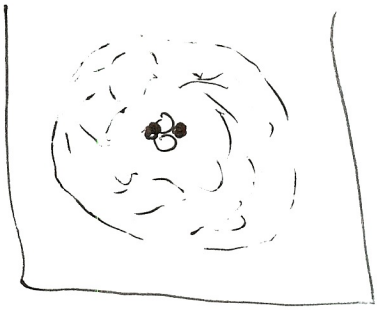


gallery 4.4.3

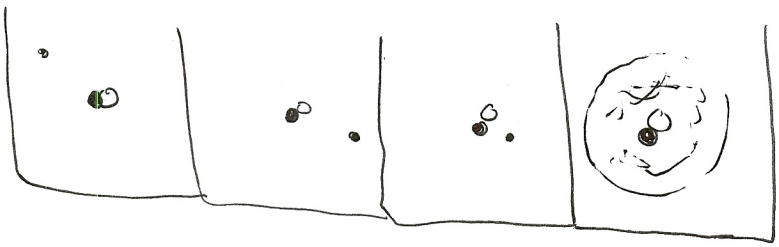
for the table in 4.4, refer to wikipedia's page on VSEPR theory - the geometry (not including electron pairs) is what we want



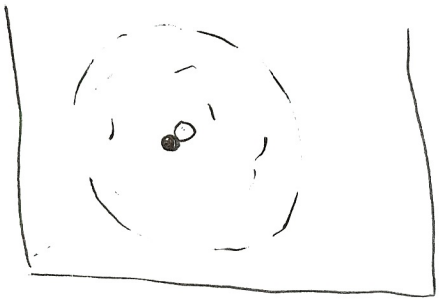
#5 Review 4.4.1



interactive 5.1.1



gallery 5.1.1

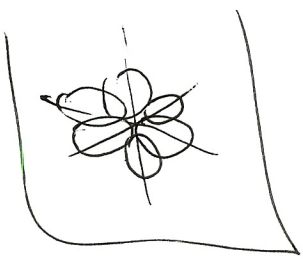


3-D 5.1.1

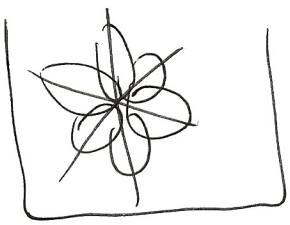


interactive ~~3-D~~ 5.1.2

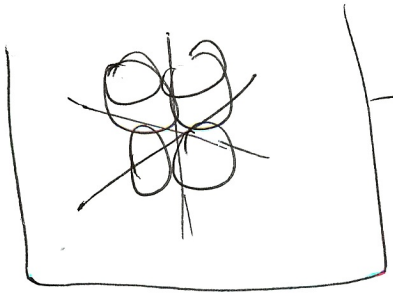
a two layered sphere
with a semi-hemisphere cut out.



interactive 5.1.3



3-D 5.1.2 merely a 3-D version of interactive 5.1.3

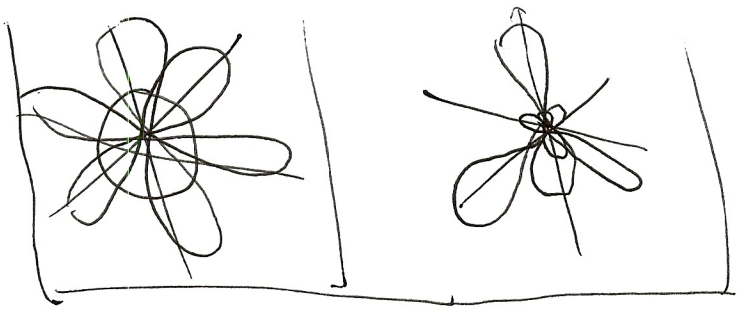


3-D 5.1.3

~~interactive 5.1.4~~

↑ Review 5.1.1 re-Uses these two images

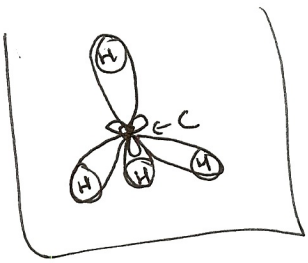
interactive 5.1.4 has wik. image showing what we want (no # needed)



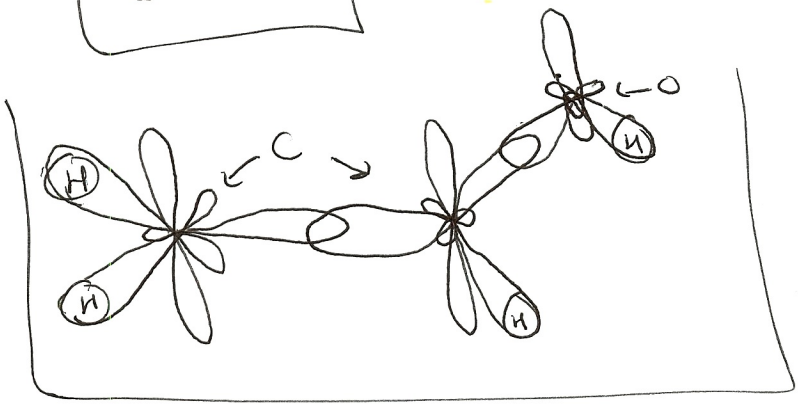
gallery 5.3.1

the second image is similar to tetrahedral shape.

Uses 4 8

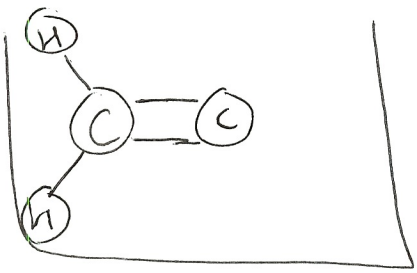


3-D 5.4.1

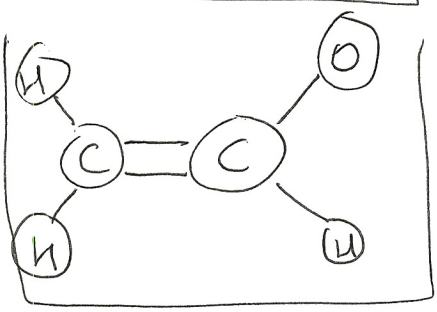


3-D 5.4.2

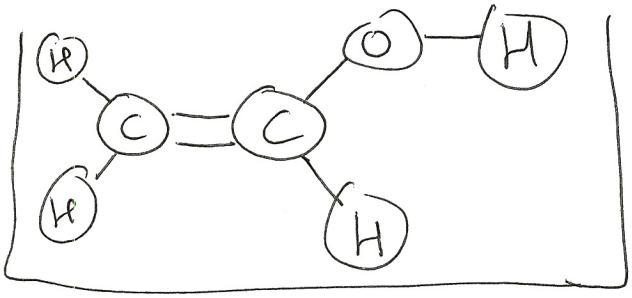
The oxygen look like the carbon in 3-D 5.4.1



3-D 5.4.3



3-D 5.4.4



3-D 5.4.5