

Your turn—print out several copies of this chart and take on as many compounds as you can:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Molecular formula	Initial layout EN values	Ionic or Covalent	# valence e-	Hypo, hyper or octet?	Multiple bonds or resonance	2-D Lewis dot Structure	#e- rich regions	Elec. geometry	Hybridization	Bond angle	Bonding pairs	Unbonded pairs	Molecular geom..	3-D VSEPR structure	VSEPR with dipoles	How many sigma and pi bonds?	Polar or non polar

For example: C_2H_2 , C_2H_4 , C_2H_6 , SCl_4 , CO_2 , CO_3^{2-} , XeF_2 , XeF_4 , CH_3CH_2OH , CH_2Br_2 , SCN^- , and on and on and on