

CH301 Worksheet 4

In each box, write the total number of electrons, the number of electrons around the perimeter atoms, and the 3D Lewis structure for the given compound. Identify multiple bonds or resonance. Indicate compounds that do not follow octet/duplet structures and the reason (too big, too small, too odd.)

CO ₂	O ₃	NO ₂ ⁻	PCl ₅
SF ₆	CH ₂ Cl ₂	CH ₃ CHO	NO
CO	BaO	H ₂ O	H ₂ O ₂
I ₃ ⁻	BF ₃	HCN	SiCl ₄
O ₂	CH ₂ CHOH	NaCl	SOCl ₂ (S is the central atom)

NH_3	NH_4^+	N_2	B(OH)_3
H_2CO_3	Br_2O	KCl	SO_2
CH_3COOH	BrF_5	K_2S	Mg_3N_2
PF_5	OF_2	ClF	HBr
$(\text{NH}_2)_2\text{CO}$	CNO^- (C is the central atom)	CH_3COO^-	SeBr_6