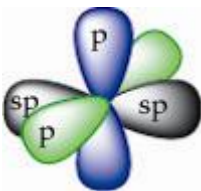
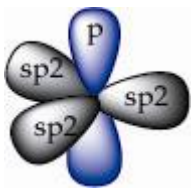
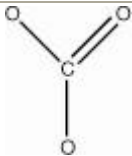
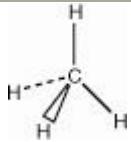
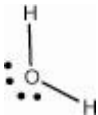


VSEPR TABLE

Regions of High Electron Density
(Bonded & Lone Pair Regions)

Molecular Structures and Examples.
The Lone Pairs have been omitted from the peripheral atoms.

Two: Linear	AX₂LP₀		AX₁LP₁
			
	2 Bonding Regions: Triple (1 σ & 2 π) Single (1 σ) 0 Lone Pair Regions	2 Bonding Regions: 2 Double (1 σ & 1 π) 0 Lone Pair Regions	2 Bonding Regions: Triple (1 σ & 2 π) 1 Lone Pair Region
Hybridization: sp	Linear: 180°	Linear: 180°	Linear: 180°
Three: Trigonal Planar	AX₃LP₀		AX₂LP₁
			
	3 Bonding Regions: 1 Double (1 σ & 1 π) & 2 Single (1 σ each) 0 Lone Pair Regions	2 Bonding Regions: 1 Double (1 σ & 1 π) & 1 Single (1 σ) 1 Lone Pair Region	
Hybridization: sp ²	Trigonal Planar: 120°	Bent: <120°	
Four: Tetrahedral	AX₄LP₀	AX₃LP₁	AX₂LP₂
			
	4 Bonding Regions: 4 Single (1 σ each) 0 Lone Pair Regions	3 Bonding Regions: 3 Single (1 σ each) 1 Lone Pair Region	2 Bonding Regions: 2 Single (1 σ each) 2 Lone Pair Regions
Hybridization: sp ³	Tetrahedral: 109.5°	Trigonal Pyramidal: 107°	Bent (Angular): 104.5°

Five: Trigonal bipyramidal	AX ₅ LP ₀	AX ₄ LP ₁	AX ₃ LP ₂	AX ₂ LP ₃
	5 Bonding Regions: 5 Single (1 σ each) 0 Lone Pair Regions	4 Bonding Regions: 4 Single (1 σ each) 1 Lone Pair Regions	3 Bonding Regions: 3 Single (1 σ each) 2 Lone Pair Regions	2 Bonding Regions: 2 Single (1 σ each) 3 Lone Pair Regions
Hybridization: sp ³ d	Trigonal Bipyramidal: 120° & 90°	Seesaw: <120° & <90°	T-shaped: <90°	Linear: 180°
Six: Octahedral	AX ₆ LP ₀	AX ₅ LP ₁	AX ₄ LP ₂	
		5 Bonding Regions: 5 Single (1 σ each) 1 Lone Pair Regions	4 Bonding Regions: 4 Single (1 σ each) 2 Lone Pair Regions	
Hybridization: sp ³ d ²	Octahedral: 90°	Square Pyramidal: <90°	Square Planar: 90°	
Four: Square Planar	AX ₄ LP ₀	AX ₃ LP ₁		
	4 Bonding regions 3 Single (1 σ each) 1 Double (1 σ & 1 π)	3 Bonding Regions: 2 Single (1 σ each) 1 Double (1 σ & 1 π) 1 Lone Pair Regions		
Hybridization: sp ² d	Square Planar: 90°			