
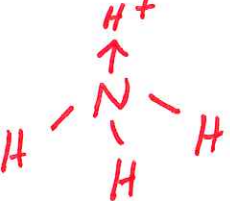
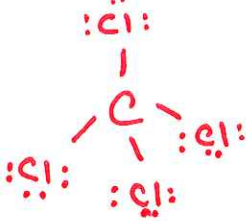

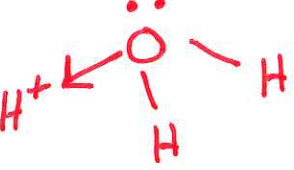

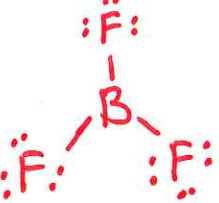


Molecular Geometry

(Honors Chemistry)

Fill in the chart completely

Formula	Structural Formula	Central Atom Bonds	Central atom unshared pair	Bond Angle	Molecular Shape
N ₂	$\text{:N}\equiv\text{N:}$	—	—	180°	Linear
CH ₄	<pre> H H-C-H H </pre>	4	∅	109.5°	Tetra- hedral
BH ₃	<pre> H H-B-H </pre>	3	∅	120°	Trigonal planar
H ₂ O	<pre> •• •• H-O-H </pre>	2	2	104.5°	Bent
NH ₃	<pre> •• •• H-N-H H </pre>	3	1	107.3°	Trigonal Pyramidal
C ₂ H ₂	$\text{H}-\text{C}\equiv\text{C}-\text{H}$	∅	∅	180°	Linear

Formula	Structural Formula	Central Atom Bonds	Central atom unshared pair	Bond Angle	Molecular Shape
CO ₂		4	∅	180°	Linear
NH ₄ ⁺		4	∅	109.5°	Tetra-hedral
CCl ₄		4	∅	109.5°	Tetra-hedral
H ₂ S		2	2	104.5°	Bent
H ₃ O ⁺		3	1	107.3°	Trigonal Pyramidal
PCl ₃		3	1	107.3°	Trigonal Pyramidal
BF ₃		3	∅	120°	Trigonal Planar