


Molecular Geometry Chart

Molecular Geometry	# Atoms Bonded to Central Atom	# Lone Pair of Electrons on Central Atom	Common Formula	Lewis Structure Example
Linear	2	0	MX_2	$\text{:}\ddot{\text{S}}=\text{C}=\ddot{\text{S}}\text{:}$
Trigonal Planar	3	0	MX_3	<pre> :Br: :Br- B -Br: : </pre>
Tetrahedral 	4	0	MX_4	<pre> H H - C - H H </pre>
Trigonal Pyramidal	3	1	MX_3	<pre> :N: H - N - H H </pre>
Bent	2	1 or 2	MX₂ MX_2	<pre> :O: / \ H - O - H </pre>
Square Planar	4	2	MX_4	<pre> :F: / \ :F- Xe -F: / \ :F: </pre>
Trigonal Bipyramidal	5	0	MX_5	<pre> :F: / \ :F- P -F: / \ :F: </pre>
Octahedral	6	0	MX_6	<pre> :F: / \ :F- S -F: / \ :F: </pre>

