**Lewis Structures & Molecular Geometry – Formula Sheet:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical**  **Formula** | **Electron**  **Geometry** | **Molecular**  **Geometry** | **Bond**  **Angles** | **Polar or**  **Nonpolar** | **Hybridization**  **Center Atom** | **Bonding**  **Groups** | **Lone**  **Pairs** | **Electron**  **Groups** |
|  | Linear | Linear |  | Nonpolar |  | 2 | 0 | 2 |
|  | Trigonal  Planar | Trigonal  Planar |  | Nonpolar |  | 3 | 0 | 3 |
|  | Trigonal  Planar | Bent |  | Polar |  | 2 | 1 | 3 |
|  | Tetrahedral | Tetrahedral |  | Nonpolar |  | 4 | 0 | 4 |
|  | Tetrahedral | Trigonal  Pyramidal |  | Polar |  | 3 | 1 | 4 |
|  | Tetrahedral | Bent |  | Polar |  | 2 | 2 | 4 |
|  | Trigonal  Bipyramidal | Trigonal  Bipyramidal |  | Nonpolar |  | 5 | 0 | 5 |
|  | Trigonal  Bipyramidal | Seesaw |  | Polar |  | 4 | 1 | 5 |
|  | Trigonal  Bipyramidal | T-Shaped |  | Polar |  | 3 | 2 | 5 |
|  | Trigonal  Bipyramidal | Linear |  | Nonpolar |  | 2 | 3 | 5 |
|  | Octahedral | Octahedral |  | Nonpolar |  | 6 | 0 | 6 |
|  | Octahedral | Square  Pyramidal |  | Polar |  | 5 | 1 | 6 |
|  | Octahedral | Square  Planar |  | Nonpolar |  | 4 | 2 | 6 |