

## Predicting Molecular Geometry and Hybridization

| Electron Groups | Bonding Groups | Lone Pairs | Electron Geometry<br>(Hybridization) | Molecular Geometry<br>(VSEPR class) | Approximate Bond Angles | Geometry Examples   |
|-----------------|----------------|------------|--------------------------------------|-------------------------------------|-------------------------|---|
| 2               | 2              | 0          | Linear<br>( $sp$ )                   | Linear<br>( $AX_2$ )                | 180                     |    |
| 3               | 3              | 0          | Trigonal Planar<br>( $sp^2$ )        | Trigonal Planar<br>( $AX_3$ )       | 120                     |    |
|                 | 2              | 1          |                                      | Bent<br>( $AX_2E$ )                 |                         |    |
| 4               | 4              | 0          | Tetrahedral<br>( $sp^3$ )            | Tetrahedral<br>( $AX_4$ )           | 109.5                   |    |
|                 | 3              | 1          |                                      | Trigonal Pyramidal<br>( $AX_3E$ )   |                         |   |
|                 | 2              | 2          |                                      | Bent<br>( $AX_2E_2$ )               |                         |  |

# Lab Molecular Geometry Team Chemistry

**LP Steffe**



**Lab Molecular Geometry Team Chemistry:**

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their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI  
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