

**Lewis Structure Worksheet #1**Read the **Instructions for Drawing Lewis Structures** worksheet carefully and draw Lewis structures for each of the following molecules:**Group A: Simple Molecules**

|                 |                 |                  |                  |                  |
|-----------------|-----------------|------------------|------------------|------------------|
| CH <sub>4</sub> | NH <sub>3</sub> | H <sub>2</sub> O | SiF <sub>4</sub> | NCl <sub>3</sub> |
|-----------------|-----------------|------------------|------------------|------------------|

**Group B: Polyatomic Ions**

|                               |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| PO <sub>4</sub> <sup>3-</sup> | ClO <sub>3</sub> <sup>-</sup> | ClO <sub>4</sub> <sup>-</sup> | SO <sub>3</sub> <sup>2-</sup> |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|

**Group C: Multiple Bonds**

|                   |     |    |                 |
|-------------------|-----|----|-----------------|
| H <sub>2</sub> CO | HCN | CO | CO <sub>2</sub> |
|-------------------|-----|----|-----------------|

**Group D: Incomplete Octets**

|                  |                  |
|------------------|------------------|
| BCl <sub>3</sub> | BeF <sub>2</sub> |
|------------------|------------------|

**Group E: Expanded Octets**

|                 |                  |                  |                  |                  |
|-----------------|------------------|------------------|------------------|------------------|
| SF <sub>6</sub> | PCl <sub>5</sub> | BrF <sub>5</sub> | XeF <sub>4</sub> | ClF <sub>3</sub> |
|-----------------|------------------|------------------|------------------|------------------|

**Group F: Multiple Central Atoms**

|                               |                               |                                  |                               |                               |
|-------------------------------|-------------------------------|----------------------------------|-------------------------------|-------------------------------|
| C <sub>2</sub> H <sub>6</sub> | C <sub>3</sub> H <sub>8</sub> | C <sub>2</sub> H <sub>5</sub> OH | C <sub>2</sub> H <sub>4</sub> | C <sub>2</sub> F <sub>2</sub> |
|-------------------------------|-------------------------------|----------------------------------|-------------------------------|-------------------------------|