**Name: Period: Seat#:**

**Worksheet #2**

**Directions:** Draw and State the following each compound below:

1. AXE formula
2. Molecular Geometry
3. Polarity
4. Total # of valence electrons

|  |  |  |  |
| --- | --- | --- | --- |
| **AlCl3**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **BCl3**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **XeO4**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **NO2**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: |
| **NO2+**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **PCl3**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **ClO2—**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **CCl4**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: |
| **XeF4**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **ClO4—**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **PCl5**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **O3**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: |
| **SCl2**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **SF4**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **IF4—**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **SiCl4**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: |
| **GaH3** *(covalent)*  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **SF6**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **OCS**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: | **ClF2+**  # of valence e–‘s = \_\_\_\_  AXE:  Molec. Geo:  Polarity: |