**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:  |