|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Write the Formula** | **Draw the Structure** | **Name the Shape** | **Determine Polarity****Polar/Nonpolar** |
| **Hydrogen** | H2 |  |  |  |
| **Water** |  |  |  |  |
| **Methane****(Carbon Tetrahydride)** |  |  |  |  |
| **Oxygen** |  |  |  |  |
| **Ammonia****(Nitrogen Trihydride)** |  |  |  |  |
| **Dichloromethane** | CH2Cl2 |  |  |  |
| **Nitrogen** |  |  |  |  |
| **Methanol** | CH3OH |  |  |  |
| **Carbon Tetrachloride** |  |  |  |  |
| **Carbon Dioxide** |  |  |  |  |
| **Hydrogen Fluoride** |  |  |  |  |
| **Hydrogen Sulfide** |  |  |  |  |
| **Ethyne** | C2H**2** |  |  |  |

**Molecular Shapes**

**x= Occupied**

**E= Empty**

|  |  |  |  |
| --- | --- | --- | --- |
| **Total Bonds** | **0 lone pair** | **1 lone pair** | **2 lone pairs** |
| 2 | AX2E0-2D.png[Linear](http://en.wikipedia.org/wiki/Linear_%28chemistry%29) |   |   |
| 3 | AX3E0-side-2D.png[Trigonal planar](http://en.wikipedia.org/wiki/Trigonal_planar) | AX2E1-2D.png[Bent](http://en.wikipedia.org/wiki/Bent_%28chemistry%29) |   |
| 4 | AX4E0-2D.png[Tetrahedral](http://en.wikipedia.org/wiki/Tetrahedral_molecular_geometry) | AX3E1-2D.png[Trigonal pyramid](http://en.wikipedia.org/wiki/Trigonal_pyramid) | AX2E2-2D.png[Bent](http://en.wikipedia.org/wiki/Bent_%28chemistry%29) |