Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

**Molecule Kit Lab – Bonding in Covalent Compounds**

**Instructions**: There are four “kits” that you will need to work with to create your compounds. *Please use one kit at a time to ensure each student has one to work with.* In each kit you’ll find a “components card” that tells you the parts that are available to you to work with. Use the molecule formulas to give you “hints” about how the structure is built.

**Kit 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Compound** | **Lewis Dot Structure** | **Ball & Stick Model** (Sketch) | **Polarity**(P, NP) |
| H2 |  |  |  |
| HBr |  |  |  |
| H2O |  |  |  |
| HClO |  |  |  |
| HCl |  |  |  |

**Kit 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Compound** | **Lewis Dot Structure** | **Ball & Stick Model** (Sketch) | **Polarity**(P, NP) |
| NH3 |  |  |  |
| CH3NH2 |  |  |  |
| N2 |  |  |  |
| HCN |  |  |  |
| BH3 |  |  |  |

**Kit 3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Compound** | **Lewis Dot Structure** | **Ball & Stick Model** (Sketch) | **Polarity**(P, NP) |
| CO2 |  |  |  |
| CH4 |  |  |  |
| H2CO |  |  |  |
| C2H4 |  |  |  |
| O2 |  |  |  |

**Kit 4**

|  |  |  |  |
| --- | --- | --- | --- |
| **Compound** | **Lewis Dot Structure** | **Ball & Stick Model** (Sketch) | **Polarity**(P, NP) |
| CH3Cl |  |  |  |
| Cl2 |  |  |  |
| CH2CL2 |  |  |  |
| C2H6 |  |  |  |

