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

**Intramolecular and Intermolecular Bonding**

**Part 1 – Determine the type of intramolecular bond in each compound, and then draw an example of the bond with full charges, partial charges, or no charges.**

**Part 2 – Determine the type of intermolecular bond in each compound.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Compound** | **Intramolecular** | **Example** | **Intermolecular** |
| NaF | Ionic | + Na----F - | Ionic |
| CH4 | Polar Covalent | δ- C-----H δ+ | Dipole-Dipole |
| F2 | Non-Polar Covalent | F------F | Dispersion Forces |
| NH3 | Polar Covalent | δ- N------H δ+ | Hydrogen Bonding |
| CCl4 |  |  |  |
| KCl |  |  |  |
| SO3 |  |  |  |
| O2 |  |  |  |
| SnS |  |  |  |
| H2O |  |  |  |
| BiCl3 |  |  |  |
| CuO |  |  |  |
| MgBr2 |  |  |  |
| PH5 |  |  |  |
| MnS2 |  |  |  |
| SeF4 |  |  |  |
| NI3 |  |  |  |
| NO2 |  |  |  |
| Cl2 |  |  |  |
| CaS |  |  |  |
| Al2O3 |  |  |  |
| AsCl3 |  |  |  |
| N2 |  |  |  |
| SiO2 |  |  |  |