**Dougherty Valley HS AP Chemistry**

**WORKSHEET #1**

**IMF – IMF’s in Solids Chart**

**Name: Date: Period: Seat #:**

Indicate the **strongest** IMF holding together crystals of the following:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Molecular Crystal** | **Metal** | **Ionic** | **Network Covalent** |
|  |  | London Forces | Dipole-Dipole attractions | Hydrogen Bonding | Metallic Bonds | Ionic Bonds | Covalent Bonds |
| 1 | NH3 |  |  |  |  |  |  |
| 2 | Kr |  |  |  |  |  |  |
| 3 | HCl |  |  |  |  |  |  |
| 4 | F2 |  |  |  |  |  |  |
| 5 | KMnO4 |  |  |  |  |  |  |
| 6 | NaCl |  |  |  |  |  |  |
| 7 | SO2 |  |  |  |  |  |  |
| 8 | CO2 |  |  |  |  |  |  |
| 9 | C3H8 |  |  |  |  |  |  |
| 10 | CH4 |  |  |  |  |  |  |
| 11 | CH3Cl |  |  |  |  |  |  |
| 12 | HF |  |  |  |  |  |  |
| 13 | C6H6 |  |  |  |  |  |  |
| 14 | NO |  |  |  |  |  |  |
| 15 | H2SO4 |  |  |  |  |  |  |
| 16 | WC |  |  |  |  |  |  |
| 17 | Si |  |  |  |  |  |  |
| 18 | SiO2 |  |  |  |  |  |  |
| 19 | Cgraphite |  |  |  |  |  |  |
| 20 | N2 |  |  |  |  |  |  |
| 21 | CH3OH |  |  |  |  |  |  |
| 22 | NaOH |  |  |  |  |  |  |
| 23 | Al |  |  |  |  |  |  |
| 24 | PCl3 |  |  |  |  |  |  |
| 25 | Ag |  |  |  |  |  |  |