RED

|  |  |  |
| --- | --- | --- |
| #1  SORT BY:  IONIC, COVALENT  OR METALLIC | MgS | H2S |
| K | CsBr | CH4 |
| Re | NH4NO2 | PF5 |

ORANGE

|  |  |  |
| --- | --- | --- |
| #2  SORT BY:  POLAR OR  NON-POLAR | SiF4 | SO |
| CO2 | H2O | N2 |
| CH3OH | NH3 | C2H6 |

YELLOW

|  |  |  |
| --- | --- | --- |
| #3  SORT BY:  “DOMINANT” IMF PRESENT:  DIPOLE-DIPOLE OR LONDON FORCES | SiF4 | SO |
| CO2 | H2O | N2 |
| CH3OH | NH3 | C2H6 |

LIGHT GREEN

|  |  |  |
| --- | --- | --- |
| #4  SORT BY: HYDROGEN BONDING OR NO HYDROGEN BONDING | C2H6 | CH3NH2 |
| NaOH | KBr | HF |
| H2O | CH3CH2OH | CH3CH2CH3 |

DARK GREEN

|  |  |  |
| --- | --- | --- |
| #5  SORT BY:  DIPOLE-DIPOLE OR HYDROGEN BONDING | CH3SH | H2S |
| HF | H2O | HBr |
| (CH3)(CO)(CH3) | N2H2 | CH3OH |

BLUE

|  |  |  |
| --- | --- | --- |
| #6  SORT BY:  “DOMINANT” IMF PRESENT – LONDON, DIPOLE-DIPOLE, OR HYDROGEN BONDING | H2S | N2H2 |
| H2O | CH4 | N2 |
| CO2 | CH3F | CH3OH |

PURPLE

|  |  |  |
| --- | --- | --- |
| #7  RANK FROM: LOWEST TO HIGHEST EXPECTED BOILING POINT | O2 | CO |
|  | SiH3OH | KF |
| Diamond |  |  |

PINK

|  |  |  |
| --- | --- | --- |
| #8  RANK FROM: LOWEST TO HIGHEST EXPECTED BOILING POINT | N2 | H2 |
| CO2 | F2 | O2 |
| CH4 | I2 | Br2 |

WHITE

|  |  |  |
| --- | --- | --- |
| IONIC | COVALENT | METALLIC |
| POLAR | NON-POALR | DIPOLE-DIPOLE |
| LONDON | HYDROGEN BONDING | NO HYDROGEN BONDING |
| LOWEST BOILING POINT | HIGHEST BOILING POINT |  |