***Entropy Worksheet***

***Conclude whether entropy is INCREASING or DECREASING in the following examples and give a reason for your answer.***

1. **Steam condenses to water.**
2. **Solid carbon dioxide sublimes**
3. **N2O4 (g) ---- > 2NO2 (g)**
4. **Water is heated from 25OC to 50OC**
5. **C6H6 (l) + O2 (g) ------🡪 6CO2 (g) + 3H2O (l)**

**CONCLUDE: which member of the following pairs has the greater predicted amount of entropy and why!**

1. **NaCl (s) or NaCl (aq)**
2. **Free Carbon dioxide gas or carbon dioxide gas dissolved in water**
3. **MgS (s) or MgF2 (s)**
4. **NO2 (g) or N2O4 (g)**
5. **Ne (g) in a 1 L container or Ne (g) in a 2 L container**
6. **Al (s) at 25OC or Al (s) at 100OC**