**Explaining Changes of State with the K.M.T.**(Need extra info? Check your “Matter and the KMT” note package)

**What are the 5 principles of the Kinetic Molecular Theory?**

1.

2.

3.

4.

5.
**Fill in the following table for each Change of State**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Change from***\_\_\_(state)\_\_\_* **to** *\_\_\_(state)\_\_\_* | **Does energy decrease or increase?**(use **↑, ↑↑,** **↓**, or **↓↓**) | **What happens to the space between particles?***(increases/ decreases)* | **What happens to speed of particles?***(speed up/ slow down)* | **What happens to the way particles move?**(*i.e. vibrate, slide, collide, which direction(s))* | **What happens to the attractive forces between particles?**(*stronger/ weaker /eliminated)* |
| **MELTING** |  |  |  |  |  |  |
| **SOLIDIFICATION** |  |  |  |  |  |  |
| **EVAPORATION** |  |  |  |  |  |  |
| **CONDENSATION** |  |  |  |  |  |  |
| **SUBLIMATION** |  |  |  |  |  |  |
| **DEPOSITION** |  |  |  |  |  |  |