Phase Changes Notes

solid liquid gas

Endothermic-

Exothermic –

* **Evaporation**
  + molecules at the surface gain enough energy to overcome \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Volatility**
  + measure of evaporation rate
  + depends on temp & IMF
  + temperature and volatility are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + IMF and volatility are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Equilibrium**
  + trapped molecules reach a balance between evaporation & condensation
* **Vapor Pressure**
  + pressure of vapor above a liquid at equilibrium
  + depends on temp and IMF
  + directly related volatility and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Boiling Point**
  + temp at which v.p. of liquid equals external pressure
  + directly related to Patm & IMF
  + Normal B.P. - b.p. at standard pressure
* **Melting Point**
  + equal to freezing point
  + directly related to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Sublimation**
  + Solid 🡪 gas
  + V.p. of solid equals external pressure
  + Ex.