**Key Vocabulary: Week 4.5: Thermochemistry**

***Complete ALL Week 4.0 and 4.5 flashcards and study over the weekend.***

 ***Week 4.5- Flashcards on Wednesday AND Thursday, Quiz on Thursday, 7/11.***

1. **Thermochemical Equation:** a balanced chemical equation including the change in energy (enthalpy).
2. **Kinetic Energy:** the energy of movement, energy in use.
3. **Potential Energy:** stored energy, usually in chemical bonds.
4. **Thermal Energy:** the total potential and kinetic energy of the atoms in a substance which creates its observed temperature.
5. **Phase Change:** a change in state between solid, liquid, gas, or plasma for matter.
6. **Fusion:** melting, the phase change from solid to liquid.
7. **Vaporization:** boiling, the phase change from liquid to gas.
8. **Heat of Fusion:** the energy that must be absorbed for a solid to melt.
9. **Heat of Vaporization:** the energy that must be absorbed for a liquid to boil.
10. **Heat of Solution:** the energy gained or released by dissolving substances.
11. **Heat of Reaction:** the energy gained or released by a chemical reaction.
12. **Heat of Combustion:** the energy released by the burning of a substance in oxygen.
13. **Phase Diagram:** a graph showing the flow of energy through the phase changes of a substance from solid to gas.