**Particle Theory Test Review**

* **Vocab: be able to use in an answer, and /or explain in own words**
	+ Particle theory, theory
	+ Particles, attraction, energy, heat, temperature
	+ State of matter, solid, liquid, gas
	+ Boiling, melting, condensation, freezing, sublimation (two uses)
	+ Conduction, convection, radiation
	+ Pure substance, mixture, solution, mechanical mixture, homogeneous mixture, heterogeneous mixture, solutes, solvents
	+ Solubility, dissolving, unsaturated, concentrated, dilute, saturated, supersaturated
* **Big ideas:**
	+ **Particle theory**
		- Know 4 main ideas of particle theory
		- Explain / diagram / label changes of state, and heating and cooling curves
		- Explain effects of heat on particles (hint: energy, volume, attraction)
	+ **Heat & Temperature**
		- Know explain difference between heat and temp
		- Compare melting and boiling points of pure substances, and how that affects the use of those substances (*memorize water melt / boil temp)*
		- Know 3 different ways / forms of energy we can use to create heat
		- Difference between and examples of conduction, convention and
		- Insulators and conductors examples and explained
	+ **Pure Substances, Solutions & Mixtures**
		- Differences (2) between pure substances & mixtures
		- Identify solutes and solvents in common solutions
		- Know 2 different kinds of mixtures, and how to tell the difference
		- Describe solutions and dissolving using particle theory
		- Explain 3 factors that affect solubility (ways speed dissolving)