**States of Matter—What you need to know!**

* Properties of solids, liquids, gases, and plasmas (including motion, spacing, and attraction of particles, as well as examples of each)
* How does matter change from one form to another? Know your phase change vocabulary and an example of each process.
* What happens to the motion, spacing, and attraction of particles as substances are heated and cooled?
* Which phase changes are endothermic? Which are exothermic?
* Be able to draw a phase change diagram for water.
* Show what happens to temperature over time.
* Identify where water is a solid, liquid, or gas (or some combination of these).
* Identify the freezing point, melting point, and boiling points on your graph.

**Mastery page—chose one to thorough explain**

* **Describe in detail the differences between two phase changes.**
* Use these words to describe pictures of particles in different states (phases):
* Endothermic, heat, particles, faster, slower, exothermic, expand, contract
* Compare and contrast endothermic and exothermic phase changes with examples.