IPS Chapter-3 **Characteristic Properties**

"I Can" Statements

1. Use characteristic properties to tell if two objects are made of the same substance.
2. Measure the masses and volumes of solids, liquids, and gases and use these measurements to calculate their densities.
3. Differentiate among substances and phases using density
4. Regularly measure temperature change of a substance and produce a graph of temperature vs. time.
5. Identify the phase changes on a temperature vs time graph
6. Define mass and volume
7. Compare the mass and volume of two or more objects made of two or more substances and predict differences and similarities.
8. Accurately measure both mass and volume of a liquid while transferring it between containers between measurements.
9. Describe the range of densities of solids, liquids, and gases.
10. Assess the relationship of phase (solid, liquid, and gas) to the range of densities found in nature.
11. Describe the relationship between air pressure and boiling point
12. Discriminate among substances based on the properties of density, melting point, and boiling point.