IPS Chapter-1 **Volume and Mass**

"I Can" Statements

1. Access, navigate, and utilize all course related websites: WebAssign.net, Classroom.google.com, Chemistrybyscott.org, & Celinaschools.org.
2. Follow and interpret all the rules on the "Science Laboratory Safety Agreement".
3. Access and use and google docs for class assignments and lab reports.
4. Properly operate and safely assemble ordinary science lab equipment such as: inserting glass tubing into a rubber stopper, collecting gas by water displacement, lighting and adjusting a flame on a Bunsen burner, assembly and adjustment of various common clamps, rings, tubing, and support equipment used in the chemistry lab.
5. Make detailed qualitative observations while carrying out a laboratory experiment.
6. Convert from any metric prefix to another between pico and Giga.
7. Measure length using a ruler.
8. Measure volume using a graduated cylinder.
9. Tell how many significant figures are in a number.
10. Calculate properly (add, subtract, multiply, divide) using significant figures.
11. Round numbers using the even rule.
12. Write any mathematical value in scientific notation.
13. Enter scientific notation values into a scientific calculator.
14. Use values expressed in scientific notation in calculations.
15. Correctly measure mass using either a mechanical balance or an electronic balance.
16. Measure the volume of air space found in a particulate structure of solid such as sand.
17. Recognize that if a solid dissolves in a liquid, the volume may not be conserved; and that when rock salt dissolves in water the total volume decreases.
18. Describe the basic operation of an equal arm balance.
19. Correlate the proper functions of an electronic balance to the mass readings produced by successively adding masses that are less than the minimum sensitivity of the balance.