CHAPTER 2 FORMULA REVIEW SHEET

THE FOLLOWING INFORMATION WILL BE ON YOUR CHAPTER 2 TEST. MAKE SURE YOU HAVE MEMORIZED AND CAN USE EACH CONCEPT AND FORMULA THAT IS LISTED.

- ❏ Scientific method (Know and <u>be able to use</u> the steps that were outlined in class.)

- ❏ Make sure you know the physical quantities (SI Base Units and Derived Units) and the units of measure that match them from your book and notes.

- ❏ Know the defined standard for the kilogram, meter, and second.

- ❏ Make sure you know the SI prefixes from tera to nano and can convert from one unit to another – know the "meaning" and know the exponents.

- ❏ $QS = QG \times CF$ (Use this formula to convert from one unit to another.)

- ❏ $D = \dfrac{M}{V}$ (to find density, mass <u>or</u> volume)

- ❏ $A = l \times w$ (to find area from length and width)

- ❏ $V = l \times w \times h$ (to find volume from length, width, and height)

- ❏ $\% \text{ error} = \dfrac{E_v - A_v}{A_v} \times 100$
    - ✓ Be able to determine if numbers are accurate and/or precise.
    - ✓ Know reasons for error in the lab.
    - ✓ Know how to read uncertainty in a measurement

- ❏ Make sure you can write numbers in scientific notation as well as add, subtract, multiply and divide using scientific notation.

- ❏ Make sure you know significant figures!!

- ❏ Know the equations for direct and inverse proportions and the shape of each graph

    Direct: $y \propto x$ (or $y/x = k$)

    Inverse: $y \propto 1/x$ (or $yx = k$)