

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 be able to use 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.
- $Q_S = Q_G \times CF$ (Use this formula to convert from one unit to another.)
- $K = ^\circ C + 273$
 $^\circ C = K - 273$
- $D = \frac{M}{V}$ (to find density, mass or 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)
- $\% \text{ error} = \frac{E_v - A_v}{A_v} \times 100$
 - ✓ 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 $yx = k$)
- Be able to read a graph, reporting the results in the correct number of significant figures.