NAME: HONORS CHEMISTRY

SECTION: UNIT 1 ASSIGNMENT SHEET

Assignment	Due Date
1. §Student and parent/guardian sign **both sides** of safety contract and course syllabus—return signature page (last sheet) to Dr V 2. *Complete Reviewing Course Policies	Thursday, 9/1
3. §Finish Observation of a Chemical Reaction lab handout	Friday, 9/2
4. §Handout: Measurements Practice 5. §Complete the Index of Learning Styles Questionnaire at http://www.engr.ncsu.edu/learningstyles/ilsweb.html Print out 2 copies—hand one in…*Print out the strategies page and keep it in your binder*	Tuesday, 9/6
6. §Go to the Online HW site http://chemistry2.csudh.edu/homework/hwintro.html Complete 20 problems of #1 (significant figures); submit score and print receipt (pick any teacher's name! I am not on the list!) 7. §Listen to the Accuracy and Precision webcast; take notes	Wednesday, 9/7
8. §Complete p. 48 # 1-7 and p. 50 #33, 41, 45, 46	Thursday, 9/8
9. Complete the lab apparatus practice at http://www.sciencegeek.net/Chemistry/Quizzes/Equipment/ 10. §Complete p. 48 # 20, 21 and pp. 51 # 49, 52	Friday, 9/9
11. Learn the SI prefixes—1 column on pair tutoring sheet 12. Work on individual formal report for the *Density of Pennies* lab	Monday, 9/12
13. Learn the SI prefixes—1 column on pair tutoring sheet 14. Work on individual formal report for the *Density of Pennies* lab	Tuesday, 9/13
15. §Read pp. 61-65 and take notes 16. §Complete pp. 51- 53 #74, 102 and pp. 69-73 #11-14,18, 29, 39, 41, 42	Wednesday, 9/14
17. Complete individual formal report for the *Density of Pennies* lab	Thursday, 9/15
18. §Complete unit 1 review sheet	Friday, 9/16
19. Study for unit 1 test	Monday, 9/19
20. Learn the names and symbols for elements 1-10 (1 column) 21. Start History of Atomic Theory Webquest…	Tuesday, 9/20
22. Learn the names and symbols for elements 1-10 (1 column) 23. Complete the History of Atomic Theory Webquest…	Wednesday, 9/21

Dates to Remember: ***will be checked for completion online** **§may be collected or checked in class**

- Individual formal lab report for the *Density of Pennies* lab due Thursday, 9/15
- Unit 1 Test Monday, 9/19

Some Useful Websites

http://chemistry2.csudh.edu/homework/hwintro.html Online HW Site (Bookmark this page!)
http://chemistry.bd.psu.edu/jircitano/sigfigs.html Significant figures
https://www.chem.tamu.edu/class/fyp/mathrev/mr-sigfg.html
http://www.chem.tamu.edu/class/fyp/mathrev/mr-scnot.html Scientific notation
http://www.nyu.edu/pages/mathmol/textbook/scinot.html Scientific notation
http://antoine.frostburg.edu/chem/senese/101/matter/index.shtml Includes some self-quizzes
http://www.sciencegeek.net/Chemistry/taters/directory.shtml Try the unit 0 question sets
http://www.felderbooks.com/papers/units.html Units and dimensional analysis
http://chemwiki.ucdavis.edu/Analytical_Chemistry/Qualitative_Analysis/Classification_of_Matter
http://www.gmasononline.com/percentageerror.htm Percent error
http://www.chemteam.info/GasLaw/Convert-Celsius-Kelvin.html
http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/maps/ctof.rxml Temperature conversions

After studying chapters 2-3, you should be able to:

- Convert between standard and scientific notation
- List and use the SI units of measurement for mass, length, time, and temperature.
- Express and convert quantities using the common SI prefixes.
- Distinguish between the accuracy and precision of a measurement.
- Identify the number of significant figures in a measurement.
- Indicate a measurement's uncertainty by using significant figures
- Apply the rules for significant figures in calculations to round off numbers correctly.
- Calculate the density of an object from experimental data.
- Calculate the percent error of an experimentally determined measurement.
- Use dimensional analysis to solve various types of problems.
- Convert between the Celsius and Kelvin temperature scales.
- Distinguish between the physical properties and chemical properties of matter.
- Compare and contrast the three main states of matter: solids, liquids and gases.
- Distinguish between the extensive and intensive properties of matter.
- Classify changes of matter as chemical or physical.
- Classify a sample of matter as a substance or a mixture; as homogeneous or heterogeneous.
- Explain the difference between an element and a compound.
- Identify common pieces of lab apparatus.
- Explain the uses of distillation, filtration and chromatography.