

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	Thursday, 8/29
2. *Complete Google Classroom assignment Reviewing Course Policies	
3. §Writing Assignment: How I Used Chemistry Over the Summer	Friday, 8/30
4. *Complete the lab apparatus quizlet	
5. §Finish Observation of a Chemical Reaction lab handout	Tuesday, 9/3
6. §Handout: Measurements Practice	Wednesday, 9/4
7. §Complete p. 48 #1-7	
8. *In Google Classroom, complete 20 problems of #1 (significant figures); submit score and get receipt (select any instructor); upload a screenshot of your receipt in Google Classroom http://chemistry2.csudh.edu/homework/hwintro.html	Thursday, 9/5
9. §Listen to the Accuracy and Precision webcast; take notes	
10. §Read pp. 61-65 (Sections 3.3-3.4) and take notes	Friday, 9/6
11. Learn the SI prefixes—pair tutoring sheet or Quizlet	Monday, 9/9
12. Work on individual formal report for the <i>Volume of a Drop</i> lab	
13. Learn the SI prefixes—pair tutoring sheet or Quizlet	Tuesday, 9/10
14. Work on individual formal report for the <i>Volume of a Drop</i> lab	
15. § Complete individual formal report for the <i>Volume of a Drop</i> lab	Wednesday, 9/11
16. Learn the SI prefixes—pair tutoring sheet or Quizlet	Thursday, 9/12
17. §Complete pp. 50-53 #31, 47, 79-82, 89, 91, 97, 99	
18. *In Google Classroom, complete the Index of Learning Styles Questionnaire . Upload a screenshot of your final results. Print a copy of the results and the strategies page for your notebook	Friday, 9/13
19. §Complete p. 68 #13, 14, pp. 70-73 #25, 26, 30, 34, 41, 42, 49, 50	
20. §Complete unit 1 review sheet	Monday, 9/16
21. Study for unit 1 test	Tuesday, 9/17
22. Learn the names and symbols for elements 1-10	Wednesday, 9/18
23. Work on the History of Atomic Theory Webquest...	

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

- Individual formal lab report for the *Volume of a Drop* lab due Wednesday, 9/11
- Unit 1 Test Tuesday, 9/17

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.

Some Useful Websites

Significant Figures and Measurements

<http://chemistry2.csudh.edu/homework/hwintro.html> Online HW Site (Bookmark this page!)

<http://chemistry.bd.psu.edu/jircitano/sigfigs.html>

<https://www.chem.tamu.edu/class/fyp/mathrev/mr-sigfg.html>

<http://www.sciencegeek.net/Chemistry/taters/directory.shtml> Check out the unit 0 question sets

<http://www.sciencegeek.net/Chemistry/Quizzes/SigFigs/> Sig fig practice quiz

<http://www.chem.tamu.edu/class/fyp/mathrev/mr-scnnot.html> Scientific notation

<http://www.nyu.edu/pages/mathmol/textbook/scinot.html>

<https://antoine.frostburg.edu/chem/senese/101/measurement/index.shtml>

[https://chem.libretexts.org/Bookshelves/Introductory_Chemistry/Book%3A_Introductory_Chemistry_\(CK-12\)/03%3A_Measurements/3.12%3A_Accuracy_and_Precision](https://chem.libretexts.org/Bookshelves/Introductory_Chemistry/Book%3A_Introductory_Chemistry_(CK-12)/03%3A_Measurements/3.12%3A_Accuracy_and_Precision)

<http://www.gmasononline.com/percentageerror.htm> Percent error

Dimensional Analysis

<http://www.felderbooks.com/papers/units.html>

<https://www.chem.tamu.edu/class/fyp/mathrev/mr-da.html>

<http://www.alysion.org/dimensional/fun.htm>

<https://www.youtube.com/watch?v=HRe1mire4Gc>

Classification of matter

<https://antoine.frostburg.edu/chem/senese/101/matter/index.shtml> Notes on matter

https://www.propofs.com/quiz-school/story.php?title=classification-matter_1 Practice quiz

<https://www.simbucket.com/simulation/chemthink-the-particulate-nature-of-matter/> Tutorial

<https://www.learner.org/courses/essential/physicalsci/session4/closer1.html> Chemical vs. physical changes

<http://chemistry.elmhurst.edu/vchembook/104Aphysprop.html> Physical properties & physical changes

<http://chemistry.elmhurst.edu/vchembook/105Achemprop.html> Chemical properties & chemical changes

<https://www.ck12.org/book/CK-12-Chemistry-Concepts-Intermediate/section/2.8/> Mixtures

<http://www.bbc.co.uk/education/guides/zgvc4wx/revision/1> Discussion of several separation methods

<https://www.ck12.org/chemistry/separating-mixtures/lesson/Methods-for-Separating-Mixtures-CHEM/> Separation methods

Temperature conversions

<https://www.wikihow.com/Convert-Celsius-to-Kelvin>

<http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/maps/ctof.rxml> Temperature conversions