



**Weekly Sheet for Chemistry**  
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**Week #4, 9/19-23, 2011**

**Topics/Content/Skills:**

- Show understanding of scientific notation and its usefulness
- Demonstrate careful approximation by correctly showing significant figures in calculation.
- Use the concept of the mole in conversions between moles, grams, and number of particles.

**Vocabulary/Key Terms/Formulas:**

-Significant figures – digits in a calculation that are known with certainty, plus one that is rounded (estimated)

-Scientific notation – a method of writing very large or very small numbers by multiplying by powers of 10

-Dimensional analysis – a logical method of performing conversions

-Mole –  $6.022 \times 10^{23}$  of something, anything!

**Homework/Classwork: (All homework is due the next class day unless indicated.)**

	<b><u>In Class</u></b>	<b><u>Homework</u></b>
<b><u>Monday</u></b>	Scientific Notation; Significant Figures	<b>Homework #7: Scientific Notation and Significant Figures; Review</b>
<b><u>Tuesday</u></b>	<b>Quiz: Electron Configurations and Atomic Structure</b> Dimensional Analysis (Conversions); the Mole	<b>Study for quiz!</b> <b>Homework #8: Dimensional Analysis and the Mole (DUE WEDNESDAY MORNING!)</b>
<b><u>Wednesday</u></b>	NO CLASS	
<b><u>Thursday</u></b>	Balancing Chemical Equations	<b>Homework #9: Balancing Equations</b>
<b><u>Friday</u></b>	<b>Quiz: The Periodic Table; Lewis Structures: Ionic, Polar Covalent, or Nonpolar covalent?</b> Review for test on Monday	<b>Use practice exam to study for test.</b> <b>LAST DAY TO TURN IN HW #1-8!</b>

**Tests/Due Dates:**

**UNIT 0 TEST on MONDAY, SEPTEMBER 19!!!**