

**PRE-AP CHEMISTRY LESSON PLAN**  
**UNIT 02: ATOMIC THEORY AND THE STRUCTURE OF MATTER**  
**SEPTEMBER 24, 2007 – SEPTEMBER 28, 2007**

DAY	OBJECTIVE(S)	ACTIVITIES
<b>MONDAY</b>	1. Use Orbital Notation to identify atoms  2. Practice the use of Quantum Numbers to identify electrons.  3. Apply Electron Configuration to Ions.	<b>UNIT DAY 1</b>  1. Warm Up: Review orbital notation and electron configuration 2. History: Thomson and Millikan 3. Practice: Orbital Notation 4. Question/Answer: Periodic table lab 5. Lecture and Practice: Quantum Numbers  <b>HW:</b> E <sup>-</sup> Configuration, Orbital Notation and Quantum # WS, due Wednesday/Thursday
	<b>TUESDAY</b>	1. Practice the use of Quantum Numbers to identify electrons.  2. Relate ionization states to electron structure.  3. Learn about excited electron states.
<b>WEDNESDAY/ THURSDAY BLOCK</b>		1. Practice predicting the ionization states of elements.  2. Explore how electron excitation affects emission spectra.  3. Investigate how electron structure creates periodic trends.
	<b>FRIDAY</b>	1. Practice using periodic trends to predict atomic properties.  2. Learn about nuclear decay (Alpha, Beta, Gamma)
3. Relate nuclear equations to atomic structure.		