

PRE-AP CHEMISTRY LESSON PLAN
UNIT 01: MATTER, MEASUREMENT, AND ENERGY/
UNIT 02: ATOMIC THEORY AND THE STRUCTURE OF MATTER
SEPTEMBER 10, 2007 – SEPTEMBER 14, 2007

DAY	OBJECTIVE(S)	ACTIVITIES
MONDAY	1. Distinguish between physical and chemical changes. 2. Apply the law of conservation of mass. 3. Review classifications of matter.	UNIT DAY 1 1. Warm Up: Phase Changes 2. Activity: Physical vs. Chemical change 3. Lecture: Classifications of matter HW: Matter and Energy practice sheet, due Wednesday/Thursday
TUESDAY	1. Explain the history of atomic theory. 2. List the parts and charges of an atom and their significance.	UNIT DAY 2 1. Warm Up: Classifications of matter 2. Lecture and Notes: Atomic theory and history – Democritus and Dalton 3. Class Practice: The parts of an atom, atomic #, atomic mass 4. Review for Unit 1 Test HW: Unit 1 Test on Wednesday/Thursday
WEDNESDAY/ THURSDAY BLOCK	1. Assess understanding of matter, measurement and energy. 2. Perform calculations for the average atomic mass. 3. Express the difference between different isotopes of an element	UNIT DAY 3 (90 min) 1. Turn in Matter and Energy practice sheet 2. Test: Matter, Measurement and Energy 3. Lecture and Practice: Mass # and isotopes 4. Lab: Isotopic Pennies 5. Lecture and Notes: Atomic theory and history – Thomson HW: Post Lab due Tuesday. Read Chapter 5: Atomic Structure and the Periodic Table
FRIDAY	1. Review isotopes and atomic mass calculations. 2. Compare/contrast isotopes and ions. 3. Begin electron configuration identification.	UNIT DAY 4 1. Warm Up: Isotopes and atomic mass 2. Lecture and Notes: Atomic theory and history – Rutherford 3. Lecture and Practice: Ions, electrons and charged atoms 4. Demo: Fluorescence and emission spectra HW: Post Lab- Due Tuesday. Read Chapter 5: Atomic Structure and the Periodic Table