2009-2010 Chemistry, Chapters 4 & 5: Atomic Theory

Essential Questions: What are we made of?

- How are scientific models developed?

 Do atoms exist or are they just concepts invented by scientists? What evidence is there in your everyday life for Do atoms exist or are they just concepts invented by scientists? What evidence the existence of atoms?
 How did the understanding of the atom affect historical events?
 How have historical events affected the model of the atom?
 What do we think the atom "looks like" now?
 If the atom is mostly empty space, why doesn't my butt fall through the chair?
 How are light and electrons related?
 How do we "see" where electrons are located in the atom?
 Why is the location of electrons so important?

Week of:	50 minutes	90 minutes	90 minutes
10/26/09	Mon. Oct. 26	Tues./Wed. Oct. 27/28	Thurs./Fri. Oct. 29/30
	Quiz 7 - % composition, empirical formula,	Preparation for test – review old quizzes, see new review sheet	Test on Measurement and Moles
	molecular formula, mass percent and molarity	(30 min.)	HW: Enjoy your weekend!
		Begin Atomic Theory –	
	HW: download and print Atomic Theory notes (> 20 pages); RQ 4.1 (from	Ancient history	
	website)	Inventions (45 min.)	
		Atomic Theory Video #1 (1st one - Mists of Prehistory)	
		- Whits of Frenistory)	
		HW: prepare for Test on	
	ļ	Measurement and Moles	
	Mon. Nov. 2	Tues./Wed. Nov. 3/4	Thurs./Fri. Nov. 5/6
11/2/09	Introduce 5 models of the	Warmup about Dalton's theory	Brief notes about Chadwick
	atom	of the atom and the Three Laws	Debrief Lab 5 – Atomic Target
	Atomic theory notes -	J.J. Thomson, with cathode ray	Practice
	Lavoisier, Proust and Dalton	tube demo, then Rutherford,	Washalaad ah aad Badhasead?a aald
		which segued into Lab 5 – Atomic Target Practice	Worksheet about Rutherford's gold foil experiment (while stamping HW
	HW: prepare for Lab 5 -		and postlab)
	Atomic Target Practice (Title, Purpose, Pre-lab	Lab 5 - Atomic Target Practice	Atomic theory videos #1 (last 2)
	questions, materials,	HW: Dalton and Thomson: p.	(review of Thomson's and
	flowchart),	112, #32,33,35-42, postlab; RQ 4.2	Rutherford's expts and theories)
			Return Measurement and Moles test, introduce "HW-optional"
			HW: Read 5.1, do p. 146, #30-32, 34, 38
	I	1	