Unit 3: Structure of the Atom

Reading Assignments

Modern Chemistry (2006), Chpt. 3

Supplementary Reading

"Teeth Tell Tale of Warm-Blooded Dinosaurs", Science News v158 #11

"Where the Gems Are: Technique Adds New Facet To Emeralds' Origins", Science News v157 #11

Homework/Activities

9	Sect. Review (Chpt. 3, Sect. 2) (p.76) #3, 5	Due:
9	Mini-quiz: Subatomic particle worksheet	Due:
9	Isotope worksheet	Due:
9	Sect. Review (Chpt. 3, Sect. 3) (p.87) #2, 3	Due:
9	Chapter Review (Chpt. 3) #5-12, 19, 25, 27	Due:
9	Articles: Dinosaurs and Gemstones	Due:
9	TBA:	Due:

Concepts/Topics O Historical vio

9	Historical views on the atom: Democritus, Aristotle, Dalton	[p.67-69]
9	The electron - CRTs, Thomson, oil droplets, Millikan	[p.72-73]
9	The nucleus, protons - gold foil, Rutherford	[p.74-76]
9	The neutron - Chadwick	
9	Atomic #, mass #, calculating the numbers of subatomic particles	[p.77-82]
9	Changing the number of subatomic particles: ions, different elements, isotopes	
9	Isotopes: two notations	[p.79]
9	Isotopes: calculating weighted average mass	[p.81-82]

Web Resources

How do I find the number of protons, electons, ...? Protons, Neutrons, and Electrons (quiz yourself!) Isotope - Wikipedia Early Views of the Atom Atomic Structure education.jlab.org/qa/pen_number.html science.widener.edu/svb/tutorial/protonscsn7.html en.wikipedia.org/wiki/Isotope www.visionlearning.com/library/module_viewer.php?mid=50 web.jjay.cuny.edu/~acarpi/NSC/3-atoms.htm