Chemistry Themed: Nuclear Unit

Date	In-Class Assignment	Homework
R 3/2	Go over Petroleum Part 2 test Nuclear Survey pkt p 9 Nuclear Debate Activity pkt p. 11-12 Read/Annotate Assigned Chapter	None
F 3/3 **Teacher Institute Day**	**No School!**	
M 3/6 **Late Start Day**	Watch "The Atom Part 1" and "The Atom Part 2" Videos (23 min) Begin A.2 Great Discovery pkt p 13 **Demos: cathode ray tubes**	Read A.2, A.3 (book p 590-593) to supplement concepts from lecture.
T 3/7	A.3 Nuclear Radiation, pkt p 14 The Journey Continues….pkt p 15 **Demo: Black Boxes** (use **powerpoint** to supplement packet pages) The Atomic Theory, pkt p 16 Architecture of the Atom, p 17-20	Developing Skills A.6, q1 only book p 601 pkt p 21
W 3/8	Go over Developing Skills A.6 (use **powerpoint** to supplement packet pages) Go Over B.1 and B.3, Ionizing Radiation, pkt 22-23 Go Over B.7, Radon pkt p 24 Discuss B.8, Radiation Detectors, pkt p 24 **Demo** Lab B.4 – **Geiger counter** B.2 Calculate your Annual Dose of Ionizing Radiation, pkt p 25	Read B.1, book p 610-612 Add to pkt p 22 Read B.3, book p 615-616 Add to pkt p 23 Read B.7, book p 626-627 Add to pkt p 24
R 3/9	(use **powerpoint** to supplement packet pages) Alpha, Beta, Gamma Decay Alpha, Beta, Gamma Song/Table pkt p 26 Discuss B.5 Natural Radioactive Decay, pkt p 27 Complete a Couple Problems on Decay Worksheet pkt p 28 Discuss C.6, Artificial Transmutation, pkt p 29 Complete a Couple Problems on Transmutation Worksheet pkt p 230	Read B.5, bk p 621-623 add to notes Complete pkt p 27 and 30
F 3/10	(use **powerpoint** to supplement packet pages) Go Over Decay Worksheet p 28 Go Over Transmutation p 30 Introduce concept of Half Life with powerpoint Half Life **Lab** pkt p 31-35	Finish Lab pkt p 31-35 Read and Take Notes on Section C.1 textbook p 638-340 pkt p 36
M 3/13 **Late Start Day**	(use **powerpoint** to supplement packet pages) C.1 Half-Life: A Radioactive Clock pkt p 37 Half-Life Problems Worksheet pkt p 38-39 C.4 and C.5 Radioisotopes in Med and for Peace, pkt p 40	Half Life Problems pkt p 38-39 Read and Takes Notes on Section C.4 and C.5 textbook p 644-649 pkt p 41 **Prepare for Monday's Debate!**

Date	In-Class Assignment	Homework
T 3/14	D.1, Unleashing Nuclear Forces, pkt p 42 Nuclear Fission Simulation: http://phet.colorado.edu/simulations/sims.php?sim=Nuclear_Fission D.3 Nuclear Power Plants pkt p 43-44 **Demo: Superheated Steam** Nuclear Weapons pkt p 45 Nuclear Waste NPR piece: http://www.npr.org/templates/story/story.php?storyId=125740818 *More information from today's lecture can be found in the textbook Section D.1 p. 658-662 and Section D.3 p. 663-666*	Read pkt p 46-48 Partners decide between TMI and Chernobyl. Take notes pkt p 49 Read article on pkt p 50-51 answer questions 1-8, top p 52 Read D.4 Fusion textbook p.667-669. Fill in notes on bottom of pkt p.52 **Prepare for Nuclear Debate!**
W 3/15	Jigsaw E.3 Power Plant disasters pkt p 46-48 D.4 Nuclear Fusion, bottom pkt p 52 http://inhabitat.com/worlds-largest-laser-a-step-closer-to-fusion-energy/ Fission vs. Fusion, pkt p 53 Questions on Material?	**Prepare for Nuclear Debate!** **Alternative Energy Project Uploaded to YouTube by 5pm Sunday!** **Send the link to your teacher!** **Bring your video to class on a flashdrive!**
R 3/16	Nuclear Energy Debate	Study for Quiz **Alternative Energy Project Uploaded to YouTube by 5pm Sunday!** **Send the link to your teacher!** **Bring your video to class on a flashdrive!**
F 3/17 **End of 3rd Quarter**	Nuclear Quiz!	**Alternative Energy Project Uploaded to YouTube by 5pm Sunday!** **Send the link to your teacher!** **Bring your video to class on a flashdrive!**
M 3/20	Go over Nuclear Quiz **Alternative Energy Project!** Watch and Evaluate your class's Alternative Energy Project	None
T 3/21	Finish Watching Your Class's Videos Watch and Evaluate another class's Alternative Energy Project	None
W 3/22	Finish Evaluating another class's Alternative Energy Project Begin *The Last Oasis*	None