Name:		Per:	Date:
 If a nuc Where What a Know tl What is 	the nucleus held together? Why does it tak leus has too many protons or neutrons, wh does nuclear energy come from? What eq re the three types of nuclear reactions? Ho ne characteristics and symbols of all three r half-life? Complete p. 837 #80-82. nuclear reaction is prevalent on the sun? In	at happens to the nucleus? quation explains nuclear energy? Wha ow can you tell them apart? nuclear particles.	-
8. Comple	te p. 838 #94		
9. Know	how to balance nuclear equations. Comple		
		Electron Study Guide	
 Light What How of Bohr's 	the relationship between energy, frequence behaves as both a and a is the photoelectric effect and what did it placed what elements make up a distance amodel stated that electrons exist on	 prove about light? nt star?	le this?
7. The q 8. Define 9. What 10. What	does an atom emit light? uantum model states that you cannot know e atomic orbital and draw the s suborbital a are the 4 types of orbitals and how many e is the number in front of the orbital also kn	and the three p suborbitals. electrons can each shape hold? nown as?	_ of an electron.
a. Li	the noble gas configuration for the followi	b. K ⁺	c. Ni c. Fr
13. Drawa. C14. What	the orbital diagrams for the following elemis the Aufbau Principle, Pauli Exclusion Principle,	nents: b. S nciple and Hund's Rule?	c. Mn
	ne following ground state or excited state on s ² 2s ² 2p ⁵ 3s ¹ b. 1s ² 2s ² 2p ⁶	onfigurations? c. 1s ² 2s ¹ 2p ⁶	
		Periodic Table Review	
2. What	s the periodic table arranged? By increasin is the group number for alkali metals, alkal	og	
 Label What 	ons does each group have? metals, semi-metals, and non-metals on th are some properties of metals? are some properties of nonmetals?	e periodic table on the right.	Periodic Table of the Elements with Atomic humins and this Rotation stable integras Enter Space
6. Circle a b c.	. alkali earth metals: halogens:	e periodic group reactive or unreactive? softer or harder than alkali metals? high or low boiling points? reactive or unreactive?	CPO SCIENCE Model to Mark To M
7. From a b c.	. Electronegativity Atomic size	g (increase or decrease)?	
	top to bottom, what happens to the follow Ionization Energy Electronegativity Atomic size	ring (increase or decrease)?	