

Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 5A – Atomic Structure and Isotope Review

20 Point

Complete the following Chart based on the isotope Series No Work = No Credit

Atomic Isotopes and Atomic Mass

Lithium - 7
Atomic # mass #

$A\# = p^+ = e^-$
 $n^0 = M\# - A\#$

Atomic Mass =
M# in amu

Isotope Notation	Atomic #	Mass #	Protons (p^+)	Electrons (e^-)	Neutrons (n^0)	Atomic Mass (amu)
Lithium-7	3	7	3	3	4	7 amu
Vanadium-51						

M# → 92 A# → 40	Zr	40	92				
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119 50	Sn						
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Calcium-40							
Calcium-41							

Iodine-126							
Iodine-127							

58 27	Co						
59 27	Co						

30 15	P						
31 15	Co						

Average Atomic Mass

Element	Scandium Sc	Niobium Nb	Cadmium Cd	Selenium Se	Xenon Xe	Radium Ra
Average Atomic Mass (amu)	44.96 amu					

A#
3
Li
6.94

21
Sc
44.96

Avg. Atomic Mass (amu)

1 amu = Mass p^+ = Mass n^0