

Name: _____ Miguel Murillo _____

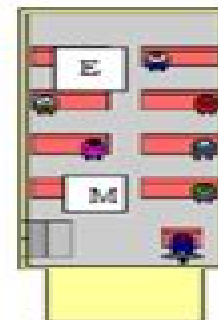
Date: 11-5-14

Student Exploration: Electron Configuration

Vocabulary: atomic number, atomic radius, Aufbau principle, chemical family, diagonal rule, electron configuration, Hund's rule, orbital, Pauli exclusion principle, period, shell, spin, sub-shell

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Elvis Perkins, a rather shy fellow, is getting on the bus shown at right. Which seat do you think he will probably sit in? Mark this seat with an "E."
2. Marta Warren gets on the bus after Elvis. She is tired after a long day at work. Where do you think she will sit? Mark this seat with an "M."
3. In your experience, do strangers getting on a bus like to sit with other people if there is an empty seat available? No, they will look for an empty seat with nobody sitting there. _____



Gizmo Warm-up

Just like passengers getting on a bus, electrons orbit the nuclei of atoms in particular patterns. You will discover these patterns (and how electrons sometimes act like passengers boarding a bus) with the *Electron Configuration Gizmo™*.

To begin, check that **Lithium** is selected on the PERIODIC TABLE tab.

1. The **atomic number** is equal to the number of protons in an atom.
How many protons are in a lithium atom? _____ 3 protons _____

2. A neutral atom has the same number of electrons and protons.
How many electrons are in a neutral lithium atom? _____ 3 electrons _____

3. Select the **ELECTRON CONFIGURATION** tab. Click twice in the **1s** box at upper left and once in the **2s** box. Observe the atom model on the right.
A. What do you see? _____ I see 2 electrons in the first shell and 1 in the second orbiting the nucleus

Atomic number		Average atomic mass			
				3	
				Li	
				6.94	
1	2	3	4	5	6
H	He	Li	Be	B	C
N	O	F	Ne	Na	Mg
Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr
Mn	Fe	Co	Ni	Cu	Zn
Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo
Tc	Ru	Rh	Pd	Ag	Cd
In	Sn	Sb	Te	I	Xe
Ba	La	Ce	Pr	Nd	Pm
Sm	Eu	Gd	Tb	Dy	Ho
Er	Tm	Yb	Lu	Hf	Ta
W	Re	Os	Ir	Pt	Au
Hg	Tl	Pb	Bi	Po	At
Fr	Ra	Ac	Th	Pa	U
Np	Pu	Am	Cm	Bk	Cf
Es	Fm	Md	No	Lr	

Answer Key Student Exploration Electron Configuration

Roman Wölfel



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healthcare systems and airports The authors explore the convergence of cloud computing and enterprise architecture and present valuable information on next generation cloud computing They also cover the various architectural types including enterprise scale integration security management and governance The book concludes by explaining the various security requirements of intelligent cities as well as the threats and vulnerabilities of the various components that form the basis of the intelligent city framework including cloud big data Internet of Things and mobile technologies *Commerce Business Daily* ,2000-06 Backpacker ,2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured NASA SP. ,1985 **New York Magazine** ,1993-03-22 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

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