

Electron Configurations And Orbital Notations

Name _____

Date _____ Per _____

Orbital Notation—While electron configurations provide some information about the location of electrons in an atom, orbital notations provide all four quantum numbers and thus, the “complete address” of electrons. Energy levels, sublevels, # of orbitals, and spin of electrons are all provided and shown with orbital notations.

PART A – ELECTRON CONFIGURATIONS AND ORBITAL NOTATIONS

Use the patterns within the periodic table to write the orbital notation for the following atoms.

	Symbol	# e ⁻	Electron configuration Orbital Notation # of unpaired / unshared electrons
1.	Mg	12	$1s^2 2s^2 2p^6 3s^2$ $\begin{array}{ccccccc} \uparrow\downarrow & \uparrow\downarrow & \uparrow\downarrow & \uparrow\downarrow & \uparrow\downarrow & & \uparrow\downarrow \\ 1s & 2s & & 2p & & & 3s \end{array}$ No unshared electrons
2.	Ar		
3.	V		
4.	Ge		
5.	He		
6.	N		

Electron Configuration Elements Atoms And Ions

Worksheet Answers

George Graybill



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