

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

# Electron Configuration Elements Atoms And Ions

## Worksheet Answers

**SB Merriam**

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar's end.

## **Electron Configuration Elements Atoms And Ions Worksheet Answers:**

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