

Name: _____

Date: _____

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POGIL: Electron Configuration and Orbitals

Model 1: Orbitals

The quantum mechanical model determines the allowed energies an electron can have and how likely it is to find the electron in various locations around the nucleus. Electrons are located in orbitals (different than Bohr!) in the electron cloud. An atomic orbital is a region of space in which there is a high probability of finding an electron. There are four orbitals, s, p, d, and f which are found in different energy levels called principle quantum numbers. Below is a table summarizing this idea. Be aware that we go all the way up to principle energy level of 7, however, it does become a bit more complex. We use the energy level numbers and orbitals in a "code" called electron configuration which helps us express the location of an electron with high probability.

Summary of Principal Energy Levels, Sublevels, and Orbitals		
Principal energy level	Number of sublevels	Type of sublevel
$n = 1$	1	1s (1 orbital)
$n = 2$	2	2s (1 orbital), 2p (3 orbitals)
$n = 3$	3	3s (1 orbital), 3p (3 orbitals), 3d (5 orbitals)
$n = 4$	4	4s (1 orbital), 4p (3 orbitals), 4d (5 orbitals), 4f (7 orbitals)

Key Content Questions:

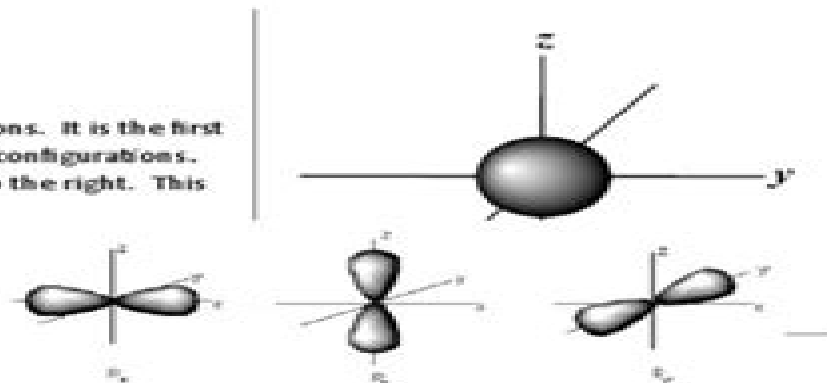
1. What is an atomic orbital? What are the four different orbitals?
2. What do you notice about the sublevels as you increase in energy levels?
3. Are all orbitals found in each sublevel?

s Orbital

The s orbital is a spherical shape and can only have 2 electrons. It is the first orbital in an energy level to be filled when writing electron configurations. The s orbital only has one orientation, seen in the picture to the right. This orbital is found in all energy levels.

(s=sphere...memory clue!)

p Orbital



Pogil Atomic Orbitals

H Kauffman



Pogil Atomic Orbitals:

Pogil Atomic Orbitals Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Pogil Atomic Orbitals**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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