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.

Principal energy level	Number of sublevels	Type of sublevel
$\alpha - 1$	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)

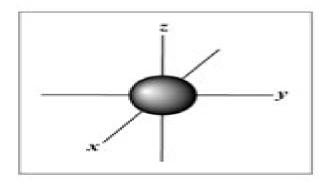
Key Content Questions:

- 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!)



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Table of Contents Dynamic Equilibrium Which Way Do We Go Pogil Answers

- 1. Understanding the eBook Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - o The Rise of Digital Reading Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - User-Friendly Interface

- 4. Exploring eBook Recommendations from Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Personalized Recommendations
 - o Dynamic Equilibrium Which Way Do We Go Pogil Answers User Reviews and Ratings
 - Dynamic Equilibrium Which Way Do We Go Pogil Answers and Bestseller Lists
- 5. Accessing Dynamic Equilibrium Which Way Do We Go Pogil Answers Free and Paid eBooks
 - o Dynamic Equilibrium Which Way Do We Go Pogil Answers Public Domain eBooks
 - o Dynamic Equilibrium Which Way Do We Go Pogil Answers eBook Subscription Services
 - Dynamic Equilibrium Which Way Do We Go Pogil Answers Budget-Friendly Options
- 6. Navigating Dynamic Equilibrium Which Way Do We Go Pogil Answers eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Dynamic Equilibrium Which Way Do We Go Pogil Answers Compatibility with Devices
 - Dynamic Equilibrium Which Way Do We Go Pogil Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Highlighting and Note-Taking Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Interactive Elements Dynamic Equilibrium Which Way Do We Go Pogil Answers
- 8. Staying Engaged with Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dynamic Equilibrium Which Way Do We Go Pogil Answers
- 9. Balancing eBooks and Physical Books Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dynamic Equilibrium Which Way Do We Go Pogil Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Setting Reading Goals Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Fact-Checking eBook Content of Dynamic Equilibrium Which Way Do We Go Pogil Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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