

# Electron Configuration Lab

Name \_\_\_\_\_ KEY \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

**Directions:** To understand that electrons fill up the LOWEST energy orbitals first, but that they spread out as much as possible in orbitals.

## Part 1: Questions

1. Write the Aufbau Principle.

**Electrons will fill the lowest energy orbitals first.**

2. Which "rule" or "principle" states that electrons spread out as much as possible within a sublevel before they pair up in the same orbital? **Hund's Rule**

3. In this lab, one cup represents an orbital in the atom. How many cups would be needed to represent the "2p" sublevel?

**three (3)**

4. How many cups would be needed to represent an atom that has the 1s, 2s, 2p, 3s, 3p sublevels \_\_\_\_\_?

**ten (10)**

5. In this lab, beans represent the electrons. How many beans can go into a single cup?

**two (2)**

## Part 2:

Part 2a

| Electron Configuration     | Total # of Electrons | Element Name | Teacher's Initials |
|----------------------------|----------------------|--------------|--------------------|
| $1s^2 2s^2 2p^3 3s^2 3p^3$ | 15                   | Phosphorus   |                    |

## Part 2b

| Station    | Electron Configuration          | Total # of Electrons |
|------------|---------------------------------|----------------------|
| Station 1  | $1s^2 2s^2 2p^3$                | 10                   |
| Station 2  | $1s^2 2s^2 2p^4$                | 8                    |
| Station 3  | $1s^2 2s^2 2p^6 3s^2 3p^2 4s^2$ | 20                   |
| Station 4  | $1s^2 2s^2 2p^6 3s^2 3p^3$      | 18                   |
| Station 5  | $1s^2 2s^2 2p^3$                | 9                    |
| Station 6  | $1s^2 2s^2$                     | 4                    |
| Station 7  | $1s^2 2s^2 2p^3$                | 8                    |
| Station 8  | $1s^2 2s^2$                     | 4                    |
| Station 9  | $1s^2 2s^2 2p^6 3s^2 3p^4 4s^2$ | 18                   |
| Station 10 | $1s^2 2s^2 2p^3$                | 9                    |

## Part 2c: Questions

1. Using a Periodic Table, identify the elements at each station and complete the table to the right.

2. Which orbital is lower in energy -- 4s or 3d?

**4s**

3. Write the electron configuration for Zinc.

$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10}$

4. Write the electron configuration for Xenon.

$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6$

5. Write the electron configuration for Bismuth.

$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^3$

| Station    | Element Name          |
|------------|-----------------------|
| Station 1  | <b>Neon (Ne)</b>      |
| Station 2  | <b>Oxygen (O)</b>     |
| Station 3  | <b>Calcium (Ca)</b>   |
| Station 4  | <b>Argon (Ar)</b>     |
| Station 5  | <b>Boron (B)</b>      |
| Station 6  | <b>Beryllium (Be)</b> |
| Station 7  | <b>Carbon (C)</b>     |
| Station 8  | <b>Lithium (Li)</b>   |
| Station 9  | <b>Potassium (K)</b>  |
| Station 10 | <b>Nitrogen (N)</b>   |

# Electron Configuration Lab

**Richard Bailey**

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the name Richard Bailey.

## **Electron Configuration Lab:**

This book delves into Electron Configuration Lab. Electron Configuration Lab is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Electron Configuration Lab, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Electron Configuration Lab
  - Chapter 2: Essential Elements of Electron Configuration Lab
  - Chapter 3: Electron Configuration Lab in Everyday Life
  - Chapter 4: Electron Configuration Lab in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Electron Configuration Lab. The first chapter will explore what Electron Configuration Lab is, why Electron Configuration Lab is vital, and how to effectively learn about Electron Configuration Lab.
3. In chapter 2, this book will delve into the foundational concepts of Electron Configuration Lab. The second chapter will elucidate the essential principles that must be understood to grasp Electron Configuration Lab in its entirety.
4. In chapter 3, the author will examine the practical applications of Electron Configuration Lab in daily life. This chapter will showcase real-world examples of how Electron Configuration Lab can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Electron Configuration Lab in specific contexts. The fourth chapter will explore how Electron Configuration Lab is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Electron Configuration Lab. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Electron Configuration Lab.

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