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Student Exploration: Electron Configuration

Vocabulary: atomic number, atomic radius, Aufbau principle, chemical family, diagonal rule, electron configuration, Hund's rule, orbital, Pauli exclusion principle, period, shell, spin, sub-shell

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Elvis Perkins, a rather shy fellow, is getting on the bus shown at right. Which seat do you think he will probably sit in? Mark this seat with an "E."
2. Marta Warren gets on the bus after Elvis. She is tired after a long day at work. Where do you think she will sit? Mark this seat with an "M."
3. In your experience, do strangers getting on a bus like to sit with other people if there is an empty seat available? NO



Gizmo Warm-up

Just like passengers getting on a bus, electrons orbit the nuclei of atoms in particular patterns. You will discover these patterns (and how electrons sometimes act like passengers boarding a bus) with the *Electron Configuration* Gizmo.

To begin, check that **Lithium** is selected on the PERIODIC TABLE tab.

1. The **atomic number** is equal to the number of protons in an atom.

How many protons are in a lithium atom? 3

2. A neutral atom has the same number of electrons and protons.

How many electrons are in a neutral lithium atom? 3



3	4	5	6	7	8
Sc	Ti	V	Cr	Mn	Fe
Y	Zr	Nb	Mo	Tc	Ru
Lr	Hf	Ta	W	Re	Os

3. Select the ELECTRON CONFIGURATION tab, and check that **Energy** is selected. Click twice in the **1s** box at lower left and once in the **2s** box. Observe the atom model at right.

A. What do you see? a nucleus with somethings orbiting it

Electron Configuration Gizmo Answer Key

Rachel Sandford



Electron Configuration Gizmo Answer Key:
Electron Configuration ,

The book delves into Electron Configuration Gizmo Answer Key. Electron Configuration Gizmo Answer Key is a crucial topic that needs to 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 Gizmo Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Electron Configuration Gizmo Answer Key
- Chapter 2: Essential Elements of Electron Configuration Gizmo Answer Key
- Chapter 3: Electron Configuration Gizmo Answer Key in Everyday Life
- Chapter 4: Electron Configuration Gizmo Answer Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Electron Configuration Gizmo Answer Key. The first chapter will explore what Electron Configuration Gizmo Answer Key is, why Electron Configuration Gizmo Answer Key is vital, and how to effectively learn about Electron Configuration Gizmo Answer Key.

3. In chapter 2, this book will delve into the foundational concepts of Electron Configuration Gizmo Answer Key. The second chapter will elucidate the essential principles that need to be understood to grasp Electron Configuration Gizmo Answer Key in its entirety.

4. In chapter 3, this book will examine the practical applications of Electron Configuration Gizmo Answer Key in daily life. The third chapter will showcase real-world examples of how Electron Configuration Gizmo Answer Key can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Electron Configuration Gizmo Answer Key in specific contexts. This chapter will explore how Electron Configuration Gizmo Answer Key is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Electron Configuration Gizmo Answer Key. 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 Gizmo Answer Key.

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Electron Configuration Gizmo Answer Key Introduction

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