



Name: Harley Small

Date: 12-04-2022

Student Exploration: Electron Configuration

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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

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."

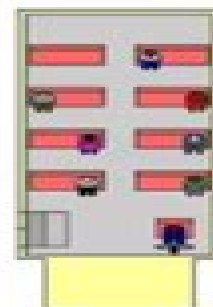
E->

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."

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

Atomic number	3
	Li
Average atomic mass	6.94

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

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Table of Contents All Gizmo Answer Key

1. Understanding the eBook All Gizmo Answer Key
 - The Rise of Digital Reading All Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying All Gizmo Answer Key
 - 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 All Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from All Gizmo Answer Key
 - Personalized Recommendations
 - All Gizmo Answer Key User Reviews and Ratings

- All Gizmo Answer Key and Bestseller Lists
- 5. Accessing All Gizmo Answer Key Free and Paid eBooks
 - All Gizmo Answer Key Public Domain eBooks
 - All Gizmo Answer Key eBook Subscription Services
 - All Gizmo Answer Key Budget-Friendly Options
- 6. Navigating All Gizmo Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - All Gizmo Answer Key Compatibility with Devices
 - All Gizmo Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of All Gizmo Answer Key
 - Highlighting and Note-Taking All Gizmo Answer Key
 - Interactive Elements All Gizmo Answer Key
- 8. Staying Engaged with All Gizmo Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers All Gizmo Answer Key
- 9. Balancing eBooks and Physical Books All Gizmo Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection All Gizmo Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine All Gizmo Answer Key
 - Setting Reading Goals All Gizmo Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of All Gizmo Answer Key
 - Fact-Checking eBook Content of All Gizmo Answer Key
 - 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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