



# Electronic Configuration



1. Use noble gases to write the abbreviated electron configurations of the following?

i. Li \_\_\_\_\_

ii. B \_\_\_\_\_

iii. O \_\_\_\_\_

iv. Mg \_\_\_\_\_

v. Cl \_\_\_\_\_

vi. V \_\_\_\_\_

vii.  $\text{Se}^{2-}$  \_\_\_\_\_

viii.  $\text{Cr}^{3+}$  \_\_\_\_\_

ix. I \_\_\_\_\_

x. Ag \_\_\_\_\_

2. Identify the element with the following electron configuration

i.  $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6$  \_\_\_\_\_

ii.  $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2$  \_\_\_\_\_

iii.  $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1 4d^7$  \_\_\_\_\_

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

v.  $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^6 7s^1$  \_\_\_\_\_

3. Determine if the following electron configurations are correct:

i.  $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 4d^{10} 4p^6 5s^1$  \_\_\_\_\_

ii.  $1s^2 2s^2 2p^6 3s^3$  \_\_\_\_\_

iii.  $[\text{Rn}] 7s^2 5f^8 6d^2$  \_\_\_\_\_

iv.  $[\text{Ar}] 5s^2 4d^{10} 5p^5$  \_\_\_\_\_

v.  $[\text{Xe}] 6s^2 4f^{10}$  \_\_\_\_\_

4. Identify the following elements

i.  $1s^2 2s^2 2p^2$  \_\_\_\_\_

ii.  $1s^2 2s^2 2p^6$  \_\_\_\_\_

iii.  $[\text{Ar}] 4s^2 3d^{10} 4p^5$  \_\_\_\_\_

iv.  $[\text{Kr}] 5s^2 4d^1$  \_\_\_\_\_

v.  $[\text{Ne}] 3s^2 3p^3$  \_\_\_\_\_

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## **Table of Contents Electron Configuration Worksheet Instructional Fair**

1. Understanding the eBook Electron Configuration Worksheet Instructional Fair
  - The Rise of Digital Reading Electron Configuration Worksheet Instructional Fair
  - Advantages of eBooks Over Traditional Books
2. Identifying Electron Configuration Worksheet Instructional Fair
  - 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 Electron Configuration Worksheet Instructional Fair
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electron Configuration Worksheet Instructional Fair
  - Personalized Recommendations
  - Electron Configuration Worksheet Instructional Fair User Reviews and Ratings
  - Electron Configuration Worksheet Instructional Fair and Bestseller Lists
5. Accessing Electron Configuration Worksheet Instructional Fair Free and Paid eBooks
  - Electron Configuration Worksheet Instructional Fair Public Domain eBooks
  - Electron Configuration Worksheet Instructional Fair eBook Subscription Services
  - Electron Configuration Worksheet Instructional Fair Budget-Friendly Options

6. Navigating Electron Configuration Worksheet Instructional Fair eBook Formats
  - ePub, PDF, MOBI, and More
  - Electron Configuration Worksheet Instructional Fair Compatibility with Devices
  - Electron Configuration Worksheet Instructional Fair Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electron Configuration Worksheet Instructional Fair
  - Highlighting and Note-Taking Electron Configuration Worksheet Instructional Fair
  - Interactive Elements Electron Configuration Worksheet Instructional Fair
8. Staying Engaged with Electron Configuration Worksheet Instructional Fair
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electron Configuration Worksheet Instructional Fair
9. Balancing eBooks and Physical Books Electron Configuration Worksheet Instructional Fair
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electron Configuration Worksheet Instructional Fair
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electron Configuration Worksheet Instructional Fair
  - Setting Reading Goals Electron Configuration Worksheet Instructional Fair
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electron Configuration Worksheet Instructional Fair
  - Fact-Checking eBook Content of Electron Configuration Worksheet Instructional Fair
  - 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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

































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