

Name: \_\_\_\_\_

## Atomic Structure & the Periodic Table Study Guide

### Atomic Structure

Particle	Charge	Where are they found?
Proton	Positive	Nucleus
Neutron	Neutral/ no charge	Nucleus
Electron	negative	Electron cloud/energy levels outside nucleus

1. What is the rule for writing chemical symbols like Na or Ca? **Capitalize the first letter; lower case second letter**

2. What are the vertical columns on the periodic table called? **Groups or families**

a. How many of these are on the periodic table? **18**

b. Why are the elements in these columns? **They have the same chemical properties (& same # of valence electrons)**

c. Elements in the same group have the same number of **valence** electrons.

3. What are the horizontal rows on the periodic table called? **periods**

a. How many of these are on the periodic table? **7**

b. Elements in these rows have the same number of **energy (electron shells)** levels.

4. What are valence electrons? **Electrons in the outer energy level**

5. How many electrons are in each energy level?

1<sup>st</sup> energy level **2**

2<sup>nd</sup> energy level **8**

3<sup>rd</sup> energy level **8**

6. The atomic number is equal to the **# of protons and also # of electrons**

7. The atomic mass is equal to the **# protons + # of neutrons**

8. How do you find the number of neutrons? **Atomic mass – atomic number**

9. We view the order of the periodic table today according to the **atomic number**

# Study Guide The Periodic Table Answer Key

**Paul B. Kelter**

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## **Table of Contents Study Guide The Periodic Table Answer Key**

1. Understanding the eBook Study Guide The Periodic Table Answer Key
  - The Rise of Digital Reading Study Guide The Periodic Table Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide The Periodic Table 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 Study Guide The Periodic Table Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide The Periodic Table Answer Key
  - Personalized Recommendations
  - Study Guide The Periodic Table Answer Key User Reviews and Ratings
  - Study Guide The Periodic Table Answer Key and Bestseller Lists
5. Accessing Study Guide The Periodic Table Answer Key Free and Paid eBooks
  - Study Guide The Periodic Table Answer Key Public Domain eBooks
  - Study Guide The Periodic Table Answer Key eBook Subscription Services
  - Study Guide The Periodic Table Answer Key Budget-Friendly Options
6. Navigating Study Guide The Periodic Table Answer Key eBook Formats

- ePub, PDF, MOBI, and More
- Study Guide The Periodic Table Answer Key Compatibility with Devices
- Study Guide The Periodic Table Answer Key Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Study Guide The Periodic Table Answer Key
- Highlighting and Note-Taking Study Guide The Periodic Table Answer Key
- Interactive Elements Study Guide The Periodic Table Answer Key

8. Staying Engaged with Study Guide The Periodic Table Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Study Guide The Periodic Table Answer Key

9. Balancing eBooks and Physical Books Study Guide The Periodic Table Answer Key

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Study Guide The Periodic Table Answer Key

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Study Guide The Periodic Table Answer Key

- Setting Reading Goals Study Guide The Periodic Table Answer Key
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Study Guide The Periodic Table Answer Key

- Fact-Checking eBook Content of Study Guide The Periodic Table 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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