

## Physical Science Study Guide Chapter 4

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

### Multiple Choice

*Identify the choice that best completes the statement or answers the question.*

- Which of the following scientists inferred that an atom's positive charge must be clustered in the nucleus?  
a. Niels Bohr b. John Dalton c. Ernest Rutherford d. J.J. Thomson
- Which particles in atoms have a negative electric charge?  
a. electrons b. protons c. neutrons d. nuclei
- Mendeleev created the first periodic table by arranging elements in order of  
a. decreasing atomic mass. b. increasing atomic mass. c. increasing atomic number. d. increasing melting points and densities.
- What prediction did Mendeleev make that came true less than 20 years later?  
a. He predicted the atomic numbers of unknown elements. b. He predicted that a total of 112 elements would be discovered. c. He said that three new elements would be discovered, and he described their properties. d. He said that the periodic table would be developed into 18 families.
- The elements in a column of the periodic table  
a. have similar properties. b. are in the same period. c. have the same atomic mass. d. have very similar chemical symbols.
- Most metals are NOT  
a. ductile. b. good conductors of heat and electricity. c. liquid at room temperature. d. malleable.
- In general, which of the following statements about metals is true?  
a. Metals need to be stored in sealed containers for safety. b. Metals show a wide range of chemical properties. c. Metals are highly reactive substances. d. Metals do not react with oxygen.
- Which group contains the most elements?  
a. semimetals b. nonmetals c. metals d. transition elements
- In the periodic table, the most reactive metals are found  
a. in Group 1, the first column on the left. b. in Period 1, the first row across the top. c. in Groups 13 through 16 in the center. d. in Periods 6 and 7 at the bottom.
- Which of the following statements about transition metals is true?  
a. They are never found uncombined in nature. b. They include familiar metals such as gold, silver, copper, and nickel. c. They are so soft that they can be cut with an ordinary knife. d. They are the most reactive of all the types of metals.
- Which property of bromine could you NOT predict based on the fact that it is a nonmetal in the halogen family?  
a. highly reactive b. poor conductor of electricity c. liquid at room temperature d. poor conductor of heat
- The elements that do not ordinarily form compounds are  
a. elements in the carbon family. b. metals. c. halogens. d. inert gases.
- Fluorine, chlorine, bromine, and iodine are part of a family called  
a. inert gases. b. semimetals. c. halogens. d. alkali metals.
- Which group of elements shares characteristics with both metals and nonmetals?  
a. salts b. semimetals c. halogens d. lanthanides
- In 1896, the French scientist Henri Becquerel discovered

# Physical Science Chapter 4 Study Guide Answers

**Jicheng Xie**



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## **Table of Contents Physical Science Chapter 4 Study Guide Answers**

1. Understanding the eBook Physical Science Chapter 4 Study Guide Answers
  - The Rise of Digital Reading Physical Science Chapter 4 Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Chapter 4 Study Guide Answers
  - 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 Physical Science Chapter 4 Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Chapter 4 Study Guide Answers
  - Personalized Recommendations
  - Physical Science Chapter 4 Study Guide Answers User Reviews and Ratings
  - Physical Science Chapter 4 Study Guide Answers and Bestseller Lists
5. Accessing Physical Science Chapter 4 Study Guide Answers Free and Paid eBooks
  - Physical Science Chapter 4 Study Guide Answers Public Domain eBooks
  - Physical Science Chapter 4 Study Guide Answers eBook Subscription Services
  - Physical Science Chapter 4 Study Guide Answers Budget-Friendly Options

6. Navigating Physical Science Chapter 4 Study Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Chapter 4 Study Guide Answers Compatibility with Devices
  - Physical Science Chapter 4 Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Chapter 4 Study Guide Answers
  - Highlighting and Note-Taking Physical Science Chapter 4 Study Guide Answers
  - Interactive Elements Physical Science Chapter 4 Study Guide Answers
8. Staying Engaged with Physical Science Chapter 4 Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Chapter 4 Study Guide Answers
9. Balancing eBooks and Physical Books Physical Science Chapter 4 Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Chapter 4 Study Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Chapter 4 Study Guide Answers
  - Setting Reading Goals Physical Science Chapter 4 Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Chapter 4 Study Guide Answers
  - Fact-Checking eBook Content of Physical Science Chapter 4 Study Guide Answers
  - 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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