

Skills Worksheet

Concept Review Chapter 5: Section 1

Section: Simple Ions

Complete each statement below by choosing a term from the following list. Terms may be used more than once.

10

11

ion

octet

12

13

anion

cation

1. An atom or group of atoms that has a positive or negative electric charge because it has lost or gained electrons is a(n) ion.
2. The sodium ion has 11 protons, 12 neutrons, and 10 electrons.
3. In most chemical reactions, atoms tend to match the outer electron configuration of the noble gases. This is called the octet rule.

Complete each statement below by writing the correct term or phrase.

4. An anion is an ion with a negative charge.
5. Valence electrons occupy the outermost energy level of an atom.
6. The chloride ion and the chlorine atom have different electron configurations.
7. A cation is an ion with a positive charge.
8. Many stable ions have an electron configuration of a noble gas.

Answer the following questions in the space provided.

9. How do the outer-shell electron configurations for ions of Group 1, Group 2, and Group 15, Group 16, and Group 17 elements compare with those of the noble gases?

They are the same. Group 1 + 2 ions have noble gas configuration of previous row. Group 15, 16 + 17 ions have noble gas configuration in their row.

Holt Chemistry Concept Review Answers Chap 17

Wenbin Ji



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Holt Chemistry Ralph Thomas Myers, 2004 **General Chemistry** Ralph H. Petrucci, William S. Harwood, 1993

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Table of Contents Holt Chemistry Concept Review Answers Chap 17

1. Understanding the eBook Holt Chemistry Concept Review Answers Chap 17
 - The Rise of Digital Reading Holt Chemistry Concept Review Answers Chap 17
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Chemistry Concept Review Answers Chap 17
 - 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 Holt Chemistry Concept Review Answers Chap 17
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Chemistry Concept Review Answers Chap 17
 - Personalized Recommendations
 - Holt Chemistry Concept Review Answers Chap 17 User Reviews and Ratings
 - Holt Chemistry Concept Review Answers Chap 17 and Bestseller Lists
5. Accessing Holt Chemistry Concept Review Answers Chap 17 Free and Paid eBooks
 - Holt Chemistry Concept Review Answers Chap 17 Public Domain eBooks
 - Holt Chemistry Concept Review Answers Chap 17 eBook Subscription Services

- Holt Chemistry Concept Review Answers Chap 17 Budget-Friendly Options
- 6. Navigating Holt Chemistry Concept Review Answers Chap 17 eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Chemistry Concept Review Answers Chap 17 Compatibility with Devices
 - Holt Chemistry Concept Review Answers Chap 17 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Chemistry Concept Review Answers Chap 17
 - Highlighting and Note-Taking Holt Chemistry Concept Review Answers Chap 17
 - Interactive Elements Holt Chemistry Concept Review Answers Chap 17
- 8. Staying Engaged with Holt Chemistry Concept Review Answers Chap 17
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Chemistry Concept Review Answers Chap 17
- 9. Balancing eBooks and Physical Books Holt Chemistry Concept Review Answers Chap 17
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Chemistry Concept Review Answers Chap 17
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Chemistry Concept Review Answers Chap 17
 - Setting Reading Goals Holt Chemistry Concept Review Answers Chap 17
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Chemistry Concept Review Answers Chap 17
 - Fact-Checking eBook Content of Holt Chemistry Concept Review Answers Chap 17
 - 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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