Chapter 19 Oxidation-Reduction Reactions

Chapter Opener

Chapter Overview, TE Review the objectives listed in the Student Edition.

Section 1 Oxidation and Reduction

PACING: 45 minutes

PENNSYLVANIA ACADEMIC STANDARDS FOR SCIENCE AND TECHNOLOGY:

3.1.E.1 Describe how fundamental science and technology concepts are used to solve practical problems.

Objectives

- 1. Assign oxidation numbers to reactant and product species.
- 2. Define oxidation and reduction.
- Explain what an oxidation-reduction (redox reaction) is.

Focus (5 minutes)

_Lesson Starter, TE Review oxidation numbers and have students familiarize themselves with the rules for assigning oxidation numbers in Table 1.

MOTIVATE (10 minutes)

__Demonstration, A Spontaneous Redox Reaction, TE Demonstrate a redox reaction by using Kl, KMnO₄, and HCl and make sure students can explain the formation of the precipitate and the color changes.

TEACH (20 minutes)

__PowerPoint

- _Visual Strategy, Figure 1, TE Make sure students understand how this figure illustrates how an element can exist in a number of different oxidation states. (GENERAL)
- Chemistry in Action, Photochromic Lenses, SE Photochromic eyeglasses darken and become transparent according to ultraviolet light because of an oxidation-reduction reaction.
- _Application, TE Sodium hypochlorite, NaOCI, is the chemical name for household bleach used to remove stains from clothing through a redox reaction.
- __Discussion, TE Students should follow up the spontaneous redox reaction demonstration by explaining the results in terms of oxidation and reduction and by writing formulas, using Table 1 for the oxidation numbers.
- _Chemistry in Action, Skunk-Spray Remedy, SE Paul Krebaum invented a better way than tomato juice to get rid of skunk spray odor.

Answers To Redox Reactions Study Guide

John A. Olmsted, Gregory M. Williams

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Table of Contents Answers To Redox Reactions Study Guide

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

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