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Name Date Class

DESCRIBING CHEMICAL REACTIONS Section Review - Objectives

- · Explain how to write a word equation
- Describe how to write a skeleton equation
- List the steps for writing a complete chemical equation

Vocabulary

- chemical equation
- skeleton equation
- catalyst.

- coefficients
- balanced equation

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

A chemical reaction can be concisely represented by a chemical	1
The substances that undergo a chemical change are the2 The new	2
substances formed in a chemical reaction are the3 In accordance with	3
the law of conservation of, a chemical equation must be balanced.	4
When balancing an equation, you place5 in front of reactants and	5
products so that the same number of atoms of each6 are on each side of	6
the equation. An equation must never be balanced by changing the7 in	7
the chemical formula of a substance.	8
Special symbols are used to show the physical state of a substance in a	9
reaction. The symbol for a liquid is8; for a solid,9; and for a gas,	10
10 A substance dissolved in water is designated11 If a12 is	11
used to increase the rate of a chemical reaction, its formula is written above the	12

Part B True-False

autropiss.

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

13. In an equation, a substance is shown to be in the gaseous state by placing an upward-pointing arrow after its formula.

14. The symbol Δ placed over the arrow in an equation means that heat is supplied to the reaction.

15. Atoms are destroyed in a chemical reaction.

16. A skeleton equation is not a balanced equation.

Part D Questions and Problems

24. Write a balanced equation for each of these chemical reactions. I
a. Aluminum reacts with aqueous hydrochloric acid to form hydrogen gas and aqueous aluminum chloride.

b. Acetylene gas (C₂H₂) burns in a welding torch with oxygen to form carbon dioxide gas and water vapor.

Review And Reinforce Describing Chemical Reactions Answers

Lingsheng Yao

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Table of Contents Review And Reinforce Describing Chemical Reactions Answers

- 1. Understanding the eBook Review And Reinforce Describing Chemical Reactions Answers
 - The Rise of Digital Reading Review And Reinforce Describing Chemical Reactions Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Review And Reinforce Describing Chemical Reactions 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 Review And Reinforce Describing Chemical Reactions Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Review And Reinforce Describing Chemical Reactions Answers
 - Personalized Recommendations
 - Review And Reinforce Describing Chemical Reactions Answers User Reviews and Ratings
 - Review And Reinforce Describing Chemical Reactions Answers and Bestseller Lists
- 5. Accessing Review And Reinforce Describing Chemical Reactions Answers Free and Paid eBooks
 - Review And Reinforce Describing Chemical Reactions Answers Public Domain eBooks
 - Review And Reinforce Describing Chemical Reactions Answers eBook Subscription Services
 - Review And Reinforce Describing Chemical Reactions Answers Budget-Friendly Options

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 - Review And Reinforce Describing Chemical Reactions Answers Compatibility with Devices
 - Review And Reinforce Describing Chemical Reactions Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Review And Reinforce Describing Chemical Reactions Answers
 - Highlighting and Note-Taking Review And Reinforce Describing Chemical Reactions Answers
 - Interactive Elements Review And Reinforce Describing Chemical Reactions Answers
- 8. Staying Engaged with Review And Reinforce Describing Chemical Reactions Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Review And Reinforce Describing Chemical Reactions Answers
- 9. Balancing eBooks and Physical Books Review And Reinforce Describing Chemical Reactions Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Review And Reinforce Describing Chemical Reactions Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Review And Reinforce Describing Chemical Reactions Answers
 - Setting Reading Goals Review And Reinforce Describing Chemical Reactions Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Review And Reinforce Describing Chemical Reactions Answers
 - Fact-Checking eBook Content of Review And Reinforce Describing Chemical Reactions Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements

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