## 4) Oxidation-Reduction Reactions

Oxidation - is a <u>loss</u> of electrons - is an <u>decrease</u> in oxidation number

Reduction - is a gain of electrons
- is a decreas in oxidation number

Oxidizing Agent - brings about the oxidation of another species

Reducing Agent- brings about the reduction of another species causes something else to gain electrons by losing electrons itself (Is Oxidized)

→ OIL RIG (Qxidation Is Loss; Reduction Is Gain)
LEO~GER (Lose Electrons Qxidation ~ Gain Electrons Reduction)

Memorize common oxidizing pathways (reducing goes backward)

- 1. Metal → metal ion
- Metal → metallous ion → metallic ion
- 3. Halide ion halogen halite ion halate ion (similar for No. No.)

Memorize common oxidizing / reducing agents (see bright orange sheet)

Ex. MnO₄ → Mn (acidified solution)

Ex. MnO<sub>4</sub> → Mn<sup>2+</sup> (acidified solution)

MnO<sub>4</sub> → MnO<sub>5</sub> (basic solution)

Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup> → Cr<sup>3+</sup> (acidified solution)

Cr<sub>2</sub>O<sub>7</sub><sup>2</sup> → Cr<sup>3+</sup> (acidified solution)
===Identify the substances being oxidized and reduced in each of the following ====

A) I<sub>2</sub> + IO<sub>3</sub> + H<sup>+</sup> ---> I<sup>+</sup> + H<sub>2</sub>O

# **Topic 9 Oxidationand Reduction Answers Practice Questions**

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#### **Table of Contents Topic 9 Oxidationand Reduction Answers Practice Questions**

- 1. Understanding the eBook Topic 9 Oxidation and Reduction Answers Practice Questions
  - The Rise of Digital Reading Topic 9 Oxidationand Reduction Answers Practice Questions
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Topic 9 Oxidationand Reduction Answers Practice Questions
  - 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 Topic 9 Oxidationand Reduction Answers Practice Questions
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Topic 9 Oxidationand Reduction Answers Practice Questions
  - Personalized Recommendations
  - Topic 9 Oxidationand Reduction Answers Practice Questions User Reviews and Ratings
  - Topic 9 Oxidationand Reduction Answers Practice Questions and Bestseller Lists
- 5. Accessing Topic 9 Oxidationand Reduction Answers Practice Questions Free and Paid eBooks
  - Topic 9 Oxidationand Reduction Answers Practice Questions Public Domain eBooks
  - Topic 9 Oxidationand Reduction Answers Practice Questions eBook Subscription Services

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