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. MnO₄ → Mn²⁺ (acidified solution)

MnO₄ → MnO₅ (basic solution)

Cr₂O₇²⁻ → Cr³⁺ (acidified solution)

Cr₂O₇² → Cr³⁺ (acidified solution)
===Identify the substances being oxidized and reduced in each of the following ====

A) I₂ + IO₃ + H⁺ ---> I⁺ + H₂O

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

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