

4) Oxidation-Reduction Reactions

Oxidation - is a loss of electrons
 - is an increase in oxidation number

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

Oxidizing Agent - brings about the oxidation of another species
↑ gets reduced

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

★ OIL RIG (Oxidation Is Loss; Reduction Is Gain)
 LEO-GER (Lose Electrons Oxidation ~ Gain Electrons Reduction)

Memorize common oxidizing pathways (reducing goes backward)

1. Metal $\xrightarrow{\text{ox}}$ metal ion
 $2n \rightarrow 2n^{2+}$
2. Metal $\xrightarrow{\text{ox}}$ metallic ion $\xrightarrow{\text{ox}}$ metallic ion
 $\text{Cu} \rightarrow \text{Cu}^+ \rightarrow \text{Cu}^{2+}$
3. Halide ion $\xrightarrow{\text{ox}}$ halogen $\xrightarrow{\text{ox}}$ halite ion $\xrightarrow{\text{ox}}$ halate ion (similar for $\text{NO}_2^- \xrightarrow{\text{ox}} \text{NO}_3^-$)
 $\text{Cl}^- \rightarrow \text{Cl}_2 \rightarrow \text{ClO}^- \rightarrow \text{ClO}_2^- \rightarrow \text{ClO}_3^- \rightarrow \text{ClO}_4^-$

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

Ex. $\text{MnO}_4^- \rightarrow \text{Mn}^{2+}$ (acidified solution)
 $\text{MnO}_4^- \rightarrow \text{MnO}_2$ (basic solution)
 $\text{Cr}_2\text{O}_7^{2-} \rightarrow \text{Cr}^{3+}$ (acidified solution)

===Identify the substances being oxidized and reduced in each of the following.===



MEMORIZE!

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Balancing Chemical Equations Worksheets (Over 200 Reactions to Balance) Chris McMullen, 2016-01-12. Master the art of balancing chemical reactions through examples and practice. 10 examples are fully solved step by step with explanations to serve as a guide. Over 200 chemical equations provide ample practice. Exercises start out easy and grow progressively more challenging and involved. Answers to every problem are tabulated at the back of the book. A chapter of pre-balancing exercises helps develop essential counting skills. Opening chapter reviews pertinent concepts and ideas. Not just for students, anyone who enjoys math and science puzzles can enjoy the challenge of balancing these chemical reactions.

Principles of Redox Reactions Malika Ammam, 2018-03-05. As a teacher of physical chemistry, I noticed that students even in advanced classes have difficulties in understanding the basics of redox chemistry. In this Section 3, I attempted to discuss some fundamental principles related to redox processes by focusing on the species that might lose or gain electrons, determination of the oxidation numbers or states of atoms in compounds, and ways of balancing redox reactions. To further clarify the discussed concepts, numerous questions and problems with detailed answers are provided. Most of these questions are formulated by students like you. I believe that this Section 3 would greatly help students with levels varying from high school to advanced university classes.

A Level Chemistry Multiple Choice Questions and Answers (MCQs) Arshad Iqbal, 2020-04-10. Previously published as A Level Chemistry MCQs Multiple Choice Questions and Answers Quiz Tests with Answer Keys by Arshad Iqbal. A Level Chemistry Multiple Choice Questions and Answers MCQs. A Level Chemistry quizzes, practice tests with answer key, provides mock tests for competitive exams to solve 1745 MCQs. A Level Chemistry MCQs helps with theoretical, conceptual, and analytical study for self-assessment, career tests. This book can help to learn and practice A Level Chemistry quizzes as a quick study guide for placement test preparation. A level Chemistry Multiple Choice Questions and Answers MCQs is a revision guide with a collection of trivia, quiz questions and answers on topics: Alcohols and esters, atomic structure and theory, benzene, chemical compound, carbonyl compounds, carboxylic acids, acyl compounds, chemical bonding, chemistry of life, electrode potential, electrons in atoms, enthalpy change, equilibrium, group IV, groups II and VII, halogenoalkanes, hydrocarbons, introduction to organic chemistry, ionic equilibria, lattice energy, moles and equations, nitrogen and sulfur, organic and nitrogen compounds, periodicity, polymerization, rates of reaction, reaction kinetics, redox reactions and electrolysis, states of matter, transition elements, to enhance teaching and learning. A level Chemistry Quiz Questions and Answers also covers the syllabus of many competitive

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Redox Reactions for Group 5 Elements, Including Element 105, in Aqueous Solutions G. V. Ionova, Gesellschaft für Schwerionenforschung (Darmstadt), 1992 [Solutions to Red Exercises - Chemistry](#) Roxy Wilson, 2005-05 Prepared by Roxy Wilson of University of Illinois Urbana Champaign Full solutions to all of the red numbered exercises in the text are provided Short answers to red exercises are found in the appendix of the text **A Better Way to Learn Redox Chemistry** **Part 1: Summarized Principles and Over 250 Answered Questions and Problems** Malika Ammam, 2017-11-25 This short book part 1 summarizes some basics of redox chemistry electrochemistry in solution Each section of the book contains concise and clear referenced summaries of redox concepts Over 250 answered questions and problems are provided to

further clarify the discussed principles Reaction-kinetic Studies of Inorganic Redox Reactions in Solution S. W.
Gilks,1960 **Thermal Redox Reactions Between Metal Ions and Radicals in Aqueous Solutions** Zuhair Kamal
Jamil,1965

Redox Reaction Worksheets With Answers Book Review: Unveiling the Power of Words

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