

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
 ↗ 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



2. Metal $\xrightarrow{\text{ox}}$ metallous ion $\xrightarrow{\text{ox}}$ metallic ion



3. Halide ion $\xrightarrow{\text{ox}}$ halogen $\xrightarrow{\text{ox}}$ halite ion $\xrightarrow{\text{ox}}$ halate ion (similar for $\text{NO}_2 \rightarrow \text{NO}_3^-$)



MEMOIZE!

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

Ex. $\text{KMnO}_4 \rightarrow \text{Mn}^{2+}$ (acidified solution)



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



Oxidation Reduction Answers

J Elliott

Oxidation Reduction Answers:

Roadmap to the Regents Sasha Alcott,2003 If Students Need to Know It It's in This Book This book develops the chemistry skills of high school students It builds skills that will help them succeed in school and on the New York Regents Exams Why The Princeton Review We have more than twenty years of experience helping students master the skills needed to excel on standardized tests Each year we help more than 2 million students score higher and earn better grades We Know the New York Regents Exams Our experts at The Princeton Review have analyzed the New York Regents Exams and this book provides the most up to date thoroughly researched practice possible We break down the test into individual skills to familiarize students with the test's structure while increasing their overall skill level We Get Results We know what it takes to succeed in the classroom and on tests This book includes strategies that are proven to improve student performance We provide a breakdown of the skills based on New York standards and objectives hundreds of practice questions organized by skill two complete practice New York Regents Exams in Physical Setting Chemistry [CSIR NET Chemical Science \(Chemistry\) \[Question Bank\]](#) Chapter Wise Question Answer of All Units 4000 +[MCQ] As Per updated Syllabus DIWAKAR EDUCATION HUB ,2021-10-25 CSIR NET Chemical Science Question Bank of 4000 Questions With Explanations from the 45 Chapters given in Syllabus Based on New Pattern For More Details Call Whats App 7310762592 7078549303 [UGC NET Environmental Science 3000 + \[MCQ\] Question Answer E-book](#) DIWAKAR EDUCATION HUB ,2022-02-13 UGC NET Environmental Science Unit Wise Practice Question Answer As Per New Updated Syllabus MCQs Highlights 1 Complete Units Cover Include All 10 Units Question Answer 2 300 Practice Question Answer Each Unit 3 Total 3000 Practice Question Answer 4 Try to take all topics MCQ 5 Include Oriented Most Expected Question Answer 6 As Per the New Updated Syllabus Check Sample Pdf Click On Below Link Download Pdf For Free For More Details Call 7310762592 7078549303 [Gate Life Science Botany \[XL-P\] Question Answer Book 2500+ MCQ As Per Updated Syllabus](#) Diwakar Education Hub ,2022-07-06 GATE Botany Life Science Code XL P Practice Sets Part of Life Science XL 3200 Question Answer With Explanations Mostly Highlights of Question Answer Covered All 9 Chapters Subjects Based MCQ As Per Syllabus In Each Chapter Unit Given 300 MCQ In Each Unit You Will Get 300 Question Answer Based on Multiple Choice Questions MCQs Multiple Select Questions MSQs Total 3200 Questions Answer Explanations of Hard Type Questions Design by Professor JRF Qualified Faculties [E3 Chemistry Guided Study Book - 2018 Home Edition \(Answer Key Included\)](#) Effiong Eyo,2017-12-08 Chemistry students and Homeschoolers Go beyond just passing Enhance your understanding of chemistry and get higher marks on homework quizzes tests and the regents exam with E3 Chemistry Guided Study Book 2018 With E3 Chemistry Guided Study Book students will get clean clear engaging exciting and easy to understand high school chemistry concepts with emphasis on New York State Regents Chemistry the Physical Setting Easy to read format to help students easily remember key and must know chemistry materials Several example problems with guided step by step solutions to study and

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Problem Exercises for General Chemistry George Gilbert

Long,Forrest C. Hentz,1982 Underground MCAT Answers Vikas Bhushan,1997 **Chemistry-vol-II** Dr Vijay Sarda, Dr A C Handa, Dr K K Arora, A text book on Chemistry Answer Book to Accompany Boikess/Edelson, Chemical Principles, Third Edition Robert S. Boikess,1985

First Aid Q&A for the NBDE Part II Jason E. Portnof, Timothy Leung, 2010-11-19

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Partial Solutions Manual Darrell D. Ebbing,David Bookin,1998 **The Best Test Preparation for the MCAT, Medical College Admission Test** Joseph A. Alvarez,1991 This test preparation book includes six full length exams modeled after the actual MCAT with detailed explanations to every test question Included are five comprehensive reviews designed to familiarize the examinee with the material tested on the MCAT mathematics physics chemistry biology and a writing sample review Key scientific topics reading comprehension passage writing skills and quantitative skills are both reviewed and tested For prospective medical school students

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