

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!

Redox Reaction Worksheets With Answers

Malika Ammam



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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* 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 papers for admission exams of different universities from chemistry textbooks on chapters: Alcohols and Esters, Multiple Choice Questions 27 MCQs, Atomic Structure and Theory Multiple Choice Questions 37 MCQs, Benzene Chemical Compound Multiple Choice Questions 41 MCQs, Carbonyl Compounds Multiple Choice Questions 29 MCQs, Carboxylic Acids and Acyl Compounds Multiple Choice Questions 27 MCQs, Chemical Bonding Multiple Choice Questions 213 MCQs, Chemistry of Life Multiple Choice Questions 29 MCQs, Electrode Potential Multiple Choice Questions 62 MCQs, Electrons in Atoms Multiple Choice Questions 53 MCQs, Enthalpy Change Multiple Choice Questions 45 MCQs, Equilibrium Multiple Choice

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Inorganic Redox Reactions in Aqueous Solutions A.S. Ghosh Mazumdar, 1971

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