



Name _____ Date _____ Block _____

Lab: Redox Half-Reactions

Purpose: To determine the oxidation and reduction half-reactions for simple single-replacement reactions.

Observations

Record your observations below (e.g., gas bubbles or turns black). If nothing occurs, write "No Rxn."

		1	2	3	4	5	6
		ZnSO ₄	H ₂ SO ₄	FeSO ₄	AgNO	CuSO ₄	MgSO ₄
A	Zn	1	2	3	4	5	6
B	Cu	7	8	9	10	11	12
C	Mg	13	14	15	16	17	18
D	Fe	19	20	21	22	23	24

Analysis

For each reaction that took place:

- Write a complete and balanced chemical equation, including phases.
- Assign oxidation numbers for every element
- Write an the oxidation and reduction half-reactions, including phases.

Example	Overall Rxn:	$\text{Ba(s)} + \text{H}_2\text{SO}_4\text{(aq)} \longrightarrow \text{H}_2\text{(g)} + \text{BaSO}_4\text{(aq)}$							
	Oxidation numbers:	0	+1	+6	-2	0	+2	+6	-2
	Oxidation-half Rxn:	$\text{Ba(s)} \longrightarrow \text{Ba}^{2+}\text{(aq)} + 2\text{e}^-$							
	Reduction-half Rxn:	$2\text{H}^+\text{(aq)} + 2\text{e}^- \longrightarrow \text{H}_2\text{(g)}$							

Redox Lab Answer Key

Ponnadurai Ramasami

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Laboratory Methods in Dynamic Electroanalysis M. Teresa Fernández Abedul, 2019-10-13 Laboratory Methods in Dynamic Electroanalysis is a useful guide to introduce analytical chemists and scientists of related disciplines to the world of dynamic electroanalysis using simple and low cost methods The trend toward decentralization of analysis has made this fascinating field one of the fastest growing branches of analytical chemistry As electroanalytical devices have moved from conventional electrochemical cells 10 20 mL to current cells e g 5 50 mL based on different materials such as paper or polymers that integrate thick or thin film electrodes interesting strategies have emerged such as the combination of microfluidic cells and biosensing or nanostructuration of electrodes This book provides detailed easy procedures for dynamic electroanalysis and covers the main trends in electrochemical cells and electrodes including microfluidic electrodes electrochemical detection in microchip electrophoresis nanostructuration of electrodes development of bio enzymatic immuno and DNA assays paper based electrodes interdigitated array electrodes multiplexed analysis and combination with optics Different strategies and techniques amperometric voltammetric and impedimetric are presented in a didactic practice based way and a bibliography provides readers with additional sources of information Provides easy to implement experiments using low cost simple equipment Includes laboratory methodologies that utilize both conventional designs and the latest trends in dynamic electroanalysis Goes beyond the fundamentals covered in other books focusing instead on practical applications of electroanalysis **Report** ,1972 **Quantitative Analysis Laboratory Manual** Dr. Bupinderpal Singh ,Dr. Bikramjit Singh,Mr. Akash Bans,2025-06-29 **Energy Research Abstracts** ,1993 Electroanalytical Techniques in Clinical Chemistry and Laboratory Medicine Joseph Wang,1988-10-21 This practical introduction to all the electroanalytical techniques that are used in clinical chemistry and laboratory medicine is the only in depth treatment of the subject available The author presents the relevant theory and uses numerous examples to illustrate the scope and possibilities of electroanalysis in the clinical laboratory The material covered includes the principles and bioanalytical applications of voltammetry and potentiometry electrochemical biosensors detectors to flowing streams and in vivo electrochemistry The book should be useful to those considering the use of electroanalysis in their laboratories and to clinical chemists experienced in electroanalysis **Annual report / Institute for Nuclear Waste Disposal ; 2009** , **Working with Chemistry** Donald J. Wink, Sharon Fetzer-Gislason, Julie Ellefson Kuehn, 2004-02-20 With this modular laboratory program students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment The scenarios are drawn from the lives of people who work with chemistry every day ranging from field ecologists to chemical engineers and include many health professionals as well *40 Inquiry Exercises for the College Biology Lab* A. Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in

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