

Lab POGIL: Metal Reactivity – Introduction & Pre-Lab

Discovery Question: *How can trends in metal reactivity be used to predict the products of chemical reactions?*

Objectives:

- Develop a procedure to test the reactivity of metals
- List metals in order of reactivity based on the results of your procedure
- Predict the products of chemical reactions by considering the relative reactivity of the reactants

You have been provided with vials containing 3 types of metals (A, B, C). You also have vials filled with solutions containing cations of each metal (A^{+} , B^{+} , C^{+}), and an additional vial containing a solution of cation D^{+} . You will also have (6-well x 4-well) plates available for small-scale reactions of metals and ionic solutions.

Elemental Metals	Solutions Containing Metal Cations
A	A (contains A^{+})
B	B (contains B^{+})
C	C (contains C^{+})
	D (contains D^{+})

Remember to wear goggles at all times. Avoid skin contact with all solutions. If contact occurs, rinse with water immediately. Solution D will stain skin and clothes.

Pre-lab Requirements:

- Describe a method for predicting charges of ions formed from single atoms of an element using the periodic table.
- Use a periodic table to predict charges for ions formed from each element listed below:

Element	Ion	Element	Ion	Element	Ion
Lithium (Li)	_____	Beryllium (Be)	_____	Copper (Cu)	____/____
Sodium (Na)	_____	Magnesium (Mg)	_____	Zinc (Zn)	_____
Potassium (K)	_____	Calcium (Ca)	_____	Silver (Ag)	_____
Nitrogen (N)	_____	Oxygen (O)	_____	Fluorine (F)	_____
Phosphorous (P)	_____	Sulfur (S)	_____	Chlorine (Cl)	_____
		Selenium (Se)	_____	Bromine (Br)	_____

Pogil Chemistry Reactivity Of Metals Answers

Lynn L. Lewis



Pogil Chemistry Reactivity Of Metals Answers:

Reactivity of Metals with Hydrochloric Acid James M. Postma, Julian Roberts, J. Leland Hollenberg, 2000-01-15 Metals and Chemical Change D A Johnson, 2007-10-31 This book looks at how molecules react and how the feasibility and outcome of chemical reactions can be predicted Beginning with an introduction to the concept of an activity series of metals Metals and Chemical Change then introduces chemical thermodynamics enthalpy entropy and free energy and applies the concept to both inorganic and organic elements A Case Study on batteries and fuel cells is also included The accompanying CD ROM includes video sequences of the reactions of metals with water acid and aqueous ions and gives the reader an opportunity to make experimental observations and predictions about chemical behaviour A comprehensive Data Book of chemical and physical constants is included along with a set of interactive self assessment questions The Molecular World series provides an integrated introduction to all branches of chemistry for both students wishing to specialise and those wishing to gain a broad understanding of chemistry and its relevance to the everyday world and to other areas of science The books with their Case Studies and accompanying multi media interactive CD ROMs will also provide valuable resource material for teachers and lecturers The CD ROMs are designed for use on a PC running Windows 95 98 ME or 2000 **Reactivity of Metals**

with Liquid and Gaseous Oxygen John David Jackson, Walter K. Boyd, Paul D. Miller, 1963 Reactivity of Metals, 2006
Metals and Ligand Reactivity - An Introduction to the Organic Chemistry of Metal Complexes; New, Revised and Expanded Edition Constable EC., 1996 Chemistry and Chemical Reactivity John C. Kotz, 1991-06-01 **Reactivity of Metals Tethered to Metal-organic Frameworks** Rosemary Young, 2021 **Chemistry of Metals** Joseph M. Oxenhorn, Peter Greenleaf, 1970 **Chemistry of Metals** Joseph M. Oxenhorn, 1970 *The Physical Chemistry of the Metals* Friedrich Rudolf Schenck, 1919 A Treatise on Chemistry. Volume II. - Metals Sir Henry Enfield Roscoe, Carl Schorlemmer, 1897 **Physical Chemistry Of Metals** Darken / Gurry, 2002-01-01 *Physical Chemistry of Metals* Lawrence Stamper Darken, 2003-01-01 **Reactivity Series**, 2006 **Determination of Gaseous Elements in Metals** Lynn L. Lewis, 1974 Behavior of gaseous elements in metals Vacuum fusion furnace reactions Activation analysis vacuum and inert gas fusion Electrical discharge extraction methods Optical and mass spectroscopic methods Hydrogen Nitrogen Oxygen Alkali metals Alkaline earth metals Aluminum zinc cadmium tin lead antimony and bismuth Chromium manganese and vanadium Ferroalloys Iron and steel Cobalt nickel and copper Titanium zirconium and hafnium Niobium tantalum molybdenum and tungsten Physical Chemistry of Metals Lawrence S. Darken, 1974 *Metal Ion Controlled Reactivity* Rudi van Eldik, Colin D. Hubbard, 2009

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Table of Contents Pogil Chemistry Reactivity Of Metals Answers

1. Understanding the eBook Pogil Chemistry Reactivity Of Metals Answers
 - The Rise of Digital Reading Pogil Chemistry Reactivity Of Metals Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Chemistry Reactivity Of Metals 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 Pogil Chemistry Reactivity Of Metals Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Chemistry Reactivity Of Metals Answers
 - Personalized Recommendations
 - Pogil Chemistry Reactivity Of Metals Answers User Reviews and Ratings
 - Pogil Chemistry Reactivity Of Metals Answers and Bestseller Lists
5. Accessing Pogil Chemistry Reactivity Of Metals Answers Free and Paid eBooks
 - Pogil Chemistry Reactivity Of Metals Answers Public Domain eBooks
 - Pogil Chemistry Reactivity Of Metals Answers eBook Subscription Services
 - Pogil Chemistry Reactivity Of Metals Answers Budget-Friendly Options
6. Navigating Pogil Chemistry Reactivity Of Metals Answers eBook Formats

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