

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:

- o Describe a method for predicting charges of ions formed from single atoms of an element using the periodic table.
- o 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 Answers Reactivity Of Metals

**John David Jackson, Walter K.
Boyd, Paul D. Miller**



Pogil Answers Reactivity Of Metals:

Reactivity of Metals ,2006 **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 Tethered to Metal-organic Frameworks** Rosemary Young,2021 **Reactivity Series** ,2006 **Reactivity of Metals with Hydrochloric Acid** James M. Postma,Julian Roberts,J. Leland Hollenberg,2000-01-15 **Reactivity of Metals with Liquid and Gaseous Oxygen** John David Jackson,Walter K. Boyd,Paul D. Miller,1963 **Metals and Ligand Reactivity - An Introduction to the Organic Chemistry of Metal Complexes; New, Revised and Expanded Edition** Constable EC.,1996 **Some Unexpected Reactions Between Metals and Aqueous Solutions at High Temperatures** D. J. Turner,Great Britain. Central Electricity Generating Board. Technology Planning and Research Division,1986 Reactivity of Metal Metal Bonds ,1981 *Reactivity of Solids: Proceedings of the Seventh International Symposium... Bristol, 17-21 July 1972, Sponsored by the Chemical Society in Association with the Institute of Metals and the British Ceramic Society* International symposium on the reactivity of solids, 7th (bristol, 1972),

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