

# 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 $D^{+}$ )

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**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.**

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## 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)	_____

# Reactivity Of Metals Pogil

**SJ Ball**



## Reactivity Of Metals Pogil:

## Reviewing **Reactivity Of Metals Pogil**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Reactivity Of Metals Pogil**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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