

# Polyatomic Ions

Can a group of atoms have a charge?

## Why?

Do you know you eat a lot of "-ates"? Next time you look at a food label, read the ingredients and you will likely find a number of ingredients that end with "-ate," such as sodium phosphate or calcium carbonate. Did you ever wonder what the chemical formulas of these ingredients look like? In this activity we will explore polyatomic ions, which are groups of atoms that carry a charge. These ions are found in our food ingredients, natural waterways, and many other chemical compounds you encounter every day.

## Model 1 – Types of Ions

Monatomic Ions	Nitride 	Sulfide 	Chloride 
Polyatomic Ions	Nitrate 	Sulfate 	Ammonium 
	Nitrite 	Sulfite 	Hydroxide 

1. Use Model 1 to complete the table below.

Name of Ion	Nitride	Nitrate	Sulfate	Sulfite	Ammonium
Charge on Ion	-3	-1	-2	-2	+1
Type and Number of Atoms	1 nitrogen	1 nitrogen 3 oxygen	1 sulfur 4 oxygen	1 sulfur 3 oxygen	1 nitrogen 4 hydrogen
Chemical Formula	$N^{3-}$	$NO_3^{1-}$	$SO_4^{2-}$	$SO_3^{2-}$	$NH_4^{1+}$

# Polyatomic Ion Pogil

**Y Pai**



## **Polyatomic Ion Pogil:**

## Adopting the Tune of Term: An Mental Symphony within **Polyatomic Ion Pogil**

In a global eaten by monitors and the ceaseless chatter of immediate connection, the melodic beauty and psychological symphony produced by the prepared term usually disappear in to the background, eclipsed by the constant sound and interruptions that permeate our lives. However, set within the pages of **Polyatomic Ion Pogil** a wonderful literary treasure overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this fascinating masterpiece conducts readers on a mental trip, skillfully unraveling the concealed tunes and profound influence resonating within each carefully crafted phrase. Within the depths of the emotional evaluation, we will discover the book is central harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

<https://crm.avenza.com/public/virtual-library/Documents/Psychology%20Extended%20Essay%20Ideas.pdf>

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