

# 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 Ions Pogil Chemistry Answers Guocaiore

**Michael Rajnik**



## **Polyatomic Ions Pogil Chemistry Answers Guocaiore:**

## Adopting the Track of Term: An Psychological Symphony within **Polyatomic Ions Pogil Chemistry Answers Guocaiore**

In a global eaten by displays and the ceaseless chatter of quick conversation, the melodic splendor and mental symphony created by the written word often disappear into the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. Nevertheless, set within the pages of **Polyatomic Ions Pogil Chemistry Answers Guocaiore** a marvelous literary treasure filled with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that charming masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths with this touching assessment, we will explore the book is main harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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