

# 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 Extension Questions Pogil Answers

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## **Polyatomic Ions Extension Questions Pogil Answers:**

## Whispering the Techniques of Language: An Emotional Quest through **Polyatomic Ions Extension Questions Pogil Answers**

In a digitally-driven world where screens reign great and quick conversation drowns out the subtleties of language, the profound strategies and mental nuances hidden within phrases frequently go unheard. Yet, nestled within the pages of **Polyatomic Ions Extension Questions Pogil Answers** a charming fictional value sporting with organic feelings, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, this charming opus attracts readers on an introspective trip, softly unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the mental depths of the moving review, we will embark upon a honest exploration of the book is primary styles, dissect its interesting publishing type, and fail to the effective resonance it evokes serious within the recesses of readers hearts.

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