# 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 N	Sulfide S	Chloride Cl)1-	
Polyatomic Ions	Nitrate	Sulfate	Ammonium H N H	
Jons	Nitrite Nitrite	Sulfite	Hydroxide	

1. Use Model 1 to complete the table below.

Name of-lon	Nitride	Nitrate	Sulfate	Sulfite	Ammonium
Charge on Ion	-3	-1	-2	-2	+1
Type and Number of Atoms	I nitrogen	1 nitrogen 3 oxygen	1 sulfur 4 oxygen	1 sulfur 3 oxygen	1 nitrogen 4 hydrogen
Chemical Formula	N3-	NO,1-	SO <sub>4</sub> -	SO,2-	NH,'·

# **Polyatomic Ions Extension Questions Pogil Answers**

**Didier Musso** 

**Polyatomic Ions Extension Questions Pogil Answers:** 

Embracing the Tune of Term: An Mental Symphony within Polyatomic Ions Extension Questions Pogil Answers

In a world eaten by monitors and the ceaseless chatter of instant communication, the melodic splendor and psychological symphony produced by the published word usually fade into the back ground, eclipsed by the relentless sound and disturbances that permeate our lives. But, situated within the pages of **Polyatomic Ions Extension Questions Pogil Answers** a charming literary treasure filled with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this fascinating masterpiece conducts visitors on a mental journey, well unraveling the concealed melodies and profound impact resonating within each carefully crafted phrase. Within the depths of this emotional analysis, we shall discover the book is main harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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