

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+}

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R Barnett



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Adopting the Track of Appearance: An Psychological Symphony within **Polyatomic Ions Pogil Page 3**

In some sort of eaten by monitors and the ceaseless chatter of quick interaction, the melodic splendor and mental symphony developed by the written word often fade in to the back ground, eclipsed by the relentless sound and interruptions that permeate our lives. However, situated within the pages of **Polyatomic Ions Pogil Page 3** an enchanting fictional value brimming with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that charming masterpiece conducts visitors on a mental trip, well unraveling the concealed melodies and profound affect resonating within each carefully crafted phrase. Within the depths of this touching review, we will examine the book is main harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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