

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+}

Pogil Activities For High School Chemistry Polyatomic Ions

S Marginson



Pogil Activities For High School Chemistry Polyatomic Ions:

Adopting the Beat of Expression: An Mental Symphony within **Pogil Activities For High School Chemistry Polyatomic Ions**

In some sort of eaten by screens and the ceaseless chatter of immediate transmission, the melodic elegance and psychological symphony created by the published term often diminish into the back ground, eclipsed by the constant sound and distractions that permeate our lives. But, nestled within the pages of **Pogil Activities For High School Chemistry Polyatomic Ions** an enchanting literary value filled with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this fascinating masterpiece conducts visitors on an emotional trip, skillfully unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths of this touching evaluation, we will examine the book is central harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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