

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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E Durkheim



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Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Polyatomic Ions Pogil Page 3**

In a world inundated with displays and the cacophony of instant interaction, the profound energy and psychological resonance of verbal beauty frequently diminish into obscurity, eclipsed by the constant onslaught of noise and distractions. Yet, set within the musical pages of **Polyatomic Ions Pogil Page 3**, a fascinating work of fictional brilliance that impulses with fresh thoughts, lies an remarkable trip waiting to be embarked upon. Penned with a virtuoso wordsmith, this magical opus books readers on a psychological odyssey, gently exposing the latent potential and profound influence embedded within the complicated internet of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is main styles, dissect their charming writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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