

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 Ion Pogil Teacher Key

Annelies Wilder-Smith



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Polyatomic Ion-surface Interactions Luke Hanley,1998 Special issue polyatomic ion surface interactions Luke Hanley,1998 **The Particulate Nature of Polyatomic Ions** ,2007 *Investigations Into the Origins of Polyatomic Ions in Inductively Coupled Plasma-mass Spectrometry* Sally M. McIntyre,2010

Whispering the Techniques of Language: An Psychological Quest through **Polyatomic Ion Pogil Teacher Key**

In a digitally-driven earth where screens reign great and quick conversation drowns out the subtleties of language, the profound strategies and psychological nuances concealed within phrases usually get unheard. Yet, situated within the pages of **Polyatomic Ion Pogil Teacher Key** a charming literary value blinking with organic feelings, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, that wonderful opus attracts viewers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the material of every word. Within the psychological depths of the poignant review, we can embark upon a heartfelt exploration of the book is primary styles, dissect their charming writing model, and fail to the effective resonance it evokes serious within the recesses of readers hearts.

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