

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 Ions Pogil Key

Jill Wisnewski Ferguson



Polyatomic Ions Pogil Key:

Whispering the Strategies of Language: An Emotional Quest through **Polyatomic Ions Pogil Key**

In a digitally-driven world wherever displays reign great and immediate communication drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within phrases often move unheard. Yet, set within the pages of **Polyatomic Ions Pogil Key** a fascinating literary value pulsating with natural thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a skilled wordsmith, that charming opus attracts visitors on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within the cloth of every word. Within the emotional depths of the poignant evaluation, we shall embark upon a sincere exploration of the book's primary themes, dissect their interesting writing style, and fail to the powerful resonance it evokes strong within the recesses of readers' hearts.

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