

# 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 Answer Key

**Princeton Review**



## **Polyatomic Ions Answer Key:**

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*Prentice Hall Science Explorer: Chemical Interactions*

Pearson/Prentice Hall, Michael J. Padilla, 2004-10

**Chemistry** James E. Brady, Fred Senese, 2004-02-04 Publisher Description

College Chemistry Steven Boone, Drew H. Wolfe, 2011-11-01 The Collins College Outline for College Chemistry is a comprehensive guide to the fundamental concepts behind chemical reactions bonding equilibria and thermodynamics with topics ranging from simple chemical measurements and the basics of atoms and molecules to entropy electrochemistry and nuclear chemistry Fully revised and updated by Dr Steven Boone College Chemistry includes practical test yourself sections with answers and complete explanations at the end of each chapter Also included are essential vocabulary definitions and sample exercises as well as detailed images charts and diagrams The Collins College Outlines are a completely revised in depth series of study guides for all areas of study including the Humanities Social Sciences Mathematics Science Language History and Business Featuring the most up to date information each book is written by a seasoned professor in the field and focuses on a simplified and general overview of the subject for college students and

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