

# 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<br> | Sulfide<br> | Chloride<br>  |
|-----------------|--|--|--|
| Polyatomic Ions | Nitrate<br> | Sulfate<br>  | Ammonium<br>  |
|                 | Nitrite<br> | Sulfite<br>  | Hydroxide<br> |

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<br>3 oxygen | 1 sulfur<br>4 oxygen | 1 sulfur<br>3 oxygen | 1 nitrogen<br>4 hydrogen |
| Chemical Formula         | $N^{3-}$   | $NO_3^{1-}$            | $SO_4^{2-}$          | $SO_3^{2-}$          | $NH_4^{1+}$              |

# Polyatomic Ions Pogil Answers

**Christian G. Meyer**



## **Polyatomic Ions Pogil Answers:**

## **Polyatomic Ions Pogil Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Polyatomic Ions Pogil Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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