

# 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         | $N^{3-}$   | $NO_3^{1-}$            | $SO_4^{2-}$          | $SO_3^{2-}$          | $NH_4^{1+}$              |

# Flinn Scientific Pogil™ Activity Polyatomic Ions

## Answers

**Yijin Wang**



**Flinn Scientific Pogil™ Activity Polyatomic Ions Answers:**

## Decoding **Flinn Scientific PogilTM Activity Polyatomic Ions Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Flinn Scientific PogilTM Activity Polyatomic Ions Answers**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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