

KEY

## Naming Ionic Compounds

What are the structural units that make up ionic compounds and how are they named?

## What?

When working in chemistry, it is often convenient to write a chemical in symbols. For example we might write down the substance table salt as  $\text{NaCl}$ . In talking about chemistry however, it is a bit tacky to say "en-ay see-el" when we want to refer to a substance. Also, in formal writing we should use the name of the compound rather than its symbols. Therefore we need to learn how to say the proper names of ionic substances.

### Model 1 – Ion Charges for Selected Elements

1	H <sup>+</sup>										
2	Li <sup>+</sup>	Be <sup>2+</sup>						N <sup>3-</sup>	O <sup>2-</sup>	F <sup>-</sup>	
3	Na <sup>+</sup>	Mg <sup>2+</sup>	Transition elements				Al <sup>3+</sup>		P <sup>3-</sup>	S <sup>2-</sup>	Cl <sup>-</sup>
4	K <sup>+</sup>	Ca <sup>2+</sup>	Fe <sup>2+</sup> Fe <sup>3+</sup>	Ni <sup>2+</sup> Ni <sup>3+</sup>	Cu <sup>+</sup> Cu <sup>2+</sup>	Zn <sup>2+</sup>					Br <sup>2-</sup>
5	Rb <sup>+</sup>	Sr <sup>2+</sup>			Ag <sup>1+</sup>			Sn <sup>2+</sup> Sn <sup>4+</sup>			I <sup>-</sup>
6		Ba <sup>2+</sup>				Hg <sup>2+</sup> Hg <sup>2+</sup>		Pb <sup>2+</sup> Pb <sup>4+</sup>			
	Cations						Anions				

- Based on the information in Model 1:
  - Identify three elements that form only one cation.  
 $H^+ Li^+ Na^+ K^+ Rb^+ Be^{+2} Mg^{+2} Ca^{+2} Sr^{+2} Ba^{+2} Zn^{+2} Ag^+ Al^{+3}$
  - Identify three elements that form only one anion.  
 $N^{3-} P^{3-} O^{2-} S^{2-} F^- Cl^- Br^- I^-$
  - Identify three elements that form more than one cation.  
 $Fe Ni Cu Hg Sn Pb$
  - In what region of the periodic table are these "multiple ion" elements usually located?  
**Transition Metals**
- Consider the ions of potassium (K) and sulfur (S). Write chemical formulas for all possible ionic compounds involving these ions, using the simplest ratio(s) of potassium (K) and sulfur (S). Keep in mind that the sum of the charges in an ionic compound must equal zero.  
 $K^+ S^{2-} \rightarrow K_2S$
- Consider the ions of iron (Fe) and sulfur (S). Write chemical formulas for all possible ionic compounds involving these ions, using the simplest ratio(s) of iron (Fe) and sulfur (S). Keep in mind that the sum of the charges in an ionic compound must equal zero.



# Ionic Nomenclature Pogil Puzzle Pieces

**JE Gale**



## **Ionic Nomenclature Pogil Puzzle Pieces:**

## **Ionic Nomenclature Pogil Puzzle Pieces** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Ionic Nomenclature Pogil Puzzle Pieces**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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### **Table of Contents Ionic Nomenclature Pogil Puzzle Pieces**

1. Understanding the eBook Ionic Nomenclature Pogil Puzzle Pieces
  - The Rise of Digital Reading Ionic Nomenclature Pogil Puzzle Pieces
  - Advantages of eBooks Over Traditional Books
2. Identifying Ionic Nomenclature Pogil Puzzle Pieces
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ionic Nomenclature Pogil Puzzle Pieces
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ionic Nomenclature Pogil Puzzle Pieces
  - Personalized Recommendations
  - Ionic Nomenclature Pogil Puzzle Pieces User Reviews and Ratings
  - Ionic Nomenclature Pogil Puzzle Pieces and Bestseller Lists

5. Accessing Ionic Nomenclature Pogil Puzzle Pieces Free and Paid eBooks
  - Ionic Nomenclature Pogil Puzzle Pieces Public Domain eBooks
  - Ionic Nomenclature Pogil Puzzle Pieces eBook Subscription Services
  - Ionic Nomenclature Pogil Puzzle Pieces Budget-Friendly Options
6. Navigating Ionic Nomenclature Pogil Puzzle Pieces eBook Formats
  - ePub, PDF, MOBI, and More
  - Ionic Nomenclature Pogil Puzzle Pieces Compatibility with Devices
  - Ionic Nomenclature Pogil Puzzle Pieces Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ionic Nomenclature Pogil Puzzle Pieces
  - Highlighting and Note-Taking Ionic Nomenclature Pogil Puzzle Pieces
  - Interactive Elements Ionic Nomenclature Pogil Puzzle Pieces
8. Staying Engaged with Ionic Nomenclature Pogil Puzzle Pieces
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ionic Nomenclature Pogil Puzzle Pieces
9. Balancing eBooks and Physical Books Ionic Nomenclature Pogil Puzzle Pieces
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ionic Nomenclature Pogil Puzzle Pieces
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ionic Nomenclature Pogil Puzzle Pieces
  - Setting Reading Goals Ionic Nomenclature Pogil Puzzle Pieces
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ionic Nomenclature Pogil Puzzle Pieces
  - Fact-Checking eBook Content of Ionic Nomenclature Pogil Puzzle Pieces
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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