

## Naming Ionic Compounds

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

### Why?

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 NaCl. In talking about chemistry however, it is a bit tacky to say "en-ay see-ell" 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>	P <sup>3-</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>1-</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>1-</sup>	
5	Rb <sup>+</sup>	Sr <sup>2+</sup>			Ag <sup>1+</sup>				Sn <sup>2+</sup> Sn <sup>4+</sup>			I <sup>1-</sup>	
6		Ba <sup>2+</sup>				Hg <sub>2</sub> <sup>2+</sup> Hg <sup>2+</sup>			Pb <sup>2+</sup> Pb <sup>4+</sup>				

Cations
 
 Anions

1. Based on the information in Model 1:

- Identify three elements that form only one cation. ← *Positive Ion*  
 $Na^+$ ,  $Sr^{2+}$ ,  $Al^{3+}$  (Any box with one element works.)
- Identify three elements that form only one anion. ← *Negative Ion*  
 $P^{3-}$ ,  $O^{2-}$ ,  $Br^{1-}$  (Any box with one element works.)
- Identify three elements that form more than one cation.  
 $Fe^{2+}$  and  $Fe^{3+}$ ,  $Ni^{2+}$  and  $Ni^{3+}$ ,  $Cu^+$  and  $Cu^{2+}$
- In what region of the periodic table are these "multiple ion" elements usually located?  
*Transition elements or "d" block*

2. 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.



3. 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.



# Pogil Ion Answers

**Jonathan Bergmann, Aaron Sams**



## Pogil Ion Answers

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## Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Pogil Ion Answers**

In some sort of inundated with monitors and the cacophony of fast interaction, the profound power and mental resonance of verbal beauty usually diminish in to obscurity, eclipsed by the regular assault of noise and distractions. However, nestled within the musical pages of **Pogil Ion Answers**, a fascinating perform of fictional elegance that pulses with natural feelings, lies an memorable trip waiting to be embarked upon. Published by a virtuoso wordsmith, this enchanting opus books viewers on an emotional odyssey, softly exposing the latent potential and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is central themes, dissect its captivating publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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