

## III. Naming and Empirical Formulas for Binary Ionic Compounds

a. Sodium bromide	<u>NaBr</u>	n. $\text{Li}_3\text{N}$	<u>lithium nitride</u>
b. Calcium chloride	<u><math>\text{CaCl}_2</math></u>	o. $\text{K}_2\text{S}$	<u>potassium sulfide</u>
c. Sodium sulfide	<u><math>\text{Na}_2\text{S}</math></u>	p. $\text{BaCl}_2$	<u>barium chloride</u>
d. Magnesium sulfide	<u><math>\text{MgS}</math></u>	q. AgI	<u>silver iodide</u>
e. Potassium iodide	<u>KI</u>	r. $\text{PbCl}_2$	<u>lead (II) chloride</u>
f. Aluminum fluoride	<u><math>\text{AlF}_3</math></u>	s. $\text{Na}_2\text{O}$	<u>sodium oxide</u>
g. Aluminum oxide	<u><math>\text{Al}_2\text{O}_3</math></u>	t. $\text{Mg}_3\text{P}_2$	<u>magnesium phosphide</u>
h. Calcium oxide	<u>CaO</u>	u. $\text{MgBr}_2$	<u>magnesium bromide</u>
i. Potassium oxide	<u><math>\text{K}_2\text{O}</math></u>	v. $\text{Fe}_2\text{O}_3$	<u>iron (III) oxide</u>
j. Iron (II) chloride	<u><math>\text{FeCl}_2</math></u>	w. LiCl	<u>lithium chloride</u>
k. Silver iodide	<u>AgI</u>	x. $\text{PbO}_2$	<u>lead (IV) oxide</u>
l. Mercury (I) sulfide	<u><math>\text{Hg}_2\text{S}</math></u>	y. CuS	<u>copper (II) sulfide</u>
m. Iron (III) bromide	<u><math>\text{FeBr}_3</math></u>	z. FeO	<u>iron (II) oxide</u>

## IV. Naming and Empirical Formulas for Ternary Ionic Compounds

a. Ammonium chloride	<u><math>\text{NH}_4\text{Cl}</math></u>	j. $\text{AgClO}_3$	<u>silver chlorate</u>
b. Ammonium sulfide	<u><math>(\text{NH}_4)_2\text{S}</math></u>	k. KOH	<u>potassium hydroxide</u>
c. Sodium hydroxide	<u>NaOH</u>	l. $\text{KNO}_3$	<u>potassium nitrate</u>
d. Magnesium sulfate	<u><math>\text{MgSO}_4</math></u>	m. $\text{BaSO}_4$	<u>barium sulfate</u>
e. Sodium phosphate	<u><math>\text{Na}_3\text{PO}_4</math></u>	n. KCl	<u>potassium chloride</u>
f. Aluminum sulfate	<u><math>\text{Al}_2\text{S}_3</math></u>	o. $\text{CaBr}_2$	<u>calcium bromide</u>
g. Aluminum phosphate	<u><math>\text{AlPO}_4</math></u>	p. $\text{Na}_2\text{O}$	<u>sodium oxide</u>
h. Calcium carbonate	<u><math>\text{CaCO}_3</math></u>	q. $\text{Mg}_3(\text{PO}_4)_2$	<u>magnesium phosphate</u>
i. Potassium nitrate	<u><math>\text{KNO}_3</math></u>	r. $\text{Al}_2(\text{CO}_3)_3$	<u>aluminum carbonate</u>

## Nomenclature

Block: \_\_\_\_\_

## I. Names and Charges of Monatomic Ions (excluding those derived from transition and post transition elements):

Name of ion	Metallic ion or non-metallic ion	Formula
a. magnesium ion	<u>metallic</u>	<u>Mg<sup>2+</sup></u>
b. potassium ion	<u>metallic</u>	<u>K<sup>+</sup></u>
c. iodide	<u>non-metallic</u>	<u>I<sup>-</sup></u>
d. oxide	<u>non-metallic</u>	<u>O<sup>2-</sup></u>
e. calcium ion	<u>metallic</u>	<u>Ca<sup>2+</sup></u>
f. phosphide	<u>non-metallic</u>	<u>P<sup>3-</sup></u>
g. chloride	<u>non-metallic</u>	<u>Cl<sup>-</sup></u>
h. selenide	<u>non-metallic</u>	<u>Se<sup>2-</sup></u>
i. lithium ion	<u>metallic</u>	<u>Li<sup>+</sup></u>
j. <u>bromide</u>	<u>non-metallic</u>	Br <sup>-</sup>
k. <u>barium ion</u>	<u>metallic</u>	Ba <sup>2+</sup>
l. <u>nitride</u>	<u>non-metallic</u>	N <sup>3-</sup>
m. <u>strontium ion</u>	<u>metallic</u>	Sr <sup>2+</sup>
n. <u>lithium ion</u>	<u>metallic</u>	Li <sup>+</sup>
o. <u>sulfide</u>	<u>non-metallic</u>	S <sup>2-</sup>
p. <u>oxide</u>	<u>non-metallic</u>	O <sup>2-</sup>
q. <u>cesium ion</u>	<u>metallic</u>	Cs <sup>+</sup>
r. <u>hydride</u>	<u>non-metallic</u>	H <sup>-</sup>
s. <u>rubidium ion</u>	<u>metallic</u>	Rb <sup>+</sup>

## II. Fill in the Blanks

positive ions, also known as cations, are derived from metals, while negative ions, also known as anions, are derived from nonmetals.