

Name

key

Period

All

Quiz 14 – Binary Ionic Compound Formulas and Nomenclature

20 Points

For the following pairs of elements determine the ion charge, ionic formula, and name.

Show work for ionic compound using cross method. No Work = No Credit!

Ba ^①		N ^②		Sn(+3) ^①		O ^②	
Ion Charge	+2	Ion Charge	-3	Ion Charge	+3	Ion Charge	-2
Ionic Compound Formula				Ionic Compound Formula			
Ba⁺²N⁻³ ^① <u>Ba₃N₂</u> ^②				Sn⁺³O⁻² ^① <u>Sn₂O₃</u> ^②			
Ionic Compound Name				Ionic Compound Name			
Barium Nitride ^②				Tin(III) Oxide ^②			

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Ca ^②		F ^①		V(+3) ^①		N ^②	
Ion Charge	+2	Ion Charge	-1	Ion Charge	+3	Ion Charge	-3
Ionic Compound Formula				Ionic Compound Formula			
Ca⁺²F⁻¹ ^① <u>CaF₂</u> ^②				V⁺³N⁻³ ^① <u>V₃N₃</u> ^② <u>VN</u> ^②			
Ionic Compound Name				Ionic Compound Name			
Calcium Fluoride ^②				Vanadium(III) Nitride ^①			

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Li		N		Fe(+3)		P	
Ion Charge	+1	Ion Charge	-3	Ion Charge	+3	Ion Charge	-3
Ionic Compound Formula $\begin{array}{c} +1 \quad -3 \\ \text{Li} \quad \text{N} \end{array}$ Li_3N				Ionic Compound Formula $\begin{array}{c} +3 \quad -3 \\ \text{Fe} \quad \text{P} \end{array}$ Fe_3P_3 FeP			
Ionic Compound Name Lithium Nitride				Ionic Compound Name Iron (III) Phosphide			

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Al		Br		Pb(+4)		O	
Ion Charge	+3	Ion Charge	-1	Ion Charge	+4	Ion Charge	-2
Ionic Compound Formula $\begin{array}{c} +3 \quad -1 \\ \text{Al} \quad \text{Br} \end{array}$ AlBr_3				Ionic Compound Formula $\begin{array}{c} +4 \quad -2 \\ \text{Pb} \quad \text{O} \end{array}$ Pb_2O_4 PbO_2			
Ionic Compound Name Aluminum Bromide				Ionic Compound Name Lead (IV) Oxide			