Chemical Formula Writing Worksheet

Determine the chemical formula for each cation and anion combination. Write your answers in each box.

Set 1 (The combining power of silver is 1 and zinc is 2)

Aluminum	Zinc	Siver	Iron(III)	Iron(II)	Copper(II)	Calcium	Magnesium	Potassium	Sodium	Cations +	Anions
											chloride
											oxide
											iodide
											hydride
											sulfide
											nitride

Set 2

						1)	Nickel(II)
							Gallium
)	Lead(IV)
							Lead(II)
						(II)	Copper(II)
						(I)	Copper(I)
						m	Strontium
							Cesium
							Barium
							Lithium
						+	Cations
phosphide	selenide	astatide	fluoride	oxide	bromide	Anions	

Themical Formula Writing Worksheet

Set 3 (The combining power of silver is 1 and zinc is 2. The formula for the ammonium ion is NH4) Brackets are only needed when the polyatomic group is greater than 1. Eg. Strontium phosphate, $S_3(PO_4)_2$ Determine the chemical formula for each cation and anion combination. Write your answers in each box.

Set 4 (The combining power of silver is 1 and zinc is 2. The formula for the ammonium ion is NH4)

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Aluminum	Zinc	Barium	Iron(III)	Iron(II)	Slver	Tin(II)	Mercury(i)	Lithium	Cations	/	
)		+/	/ '	Anions
										NO ₂	nitrite
										0°O ₄ ²⁻	chromate
										S ₃ ² -	sulfite,
										0 ² 0 ²	dichromate
										QO,	chlorate
										043000 <u>.</u>	acetate*
	Aluminum	Zinc Aluminum	Barium Zinc Aluminum	Iron(III) Barium Zinc Aluminum	Iron(II) Iron(III) Barium Zinc Aluminum	Silver Silver Iron(II) Iron(III) Barium Iron(III) Zinc Iron(III) Aluminum Iron(III)	Tin(II) Tin(II) Sliver Innon(II) Iron(III) Innon(III) Barium Innon(III) Zinc Innon(III) Aluminum Innon(III)	Mercury(I) Mercury(I) Tin(II) (III) Silver (III) Iron(III) (IIII) Barium (IIII) Zinc (IIIII) Aluminum (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Lithium Lithium Mercury(I) (III) Tin(II) (IIII) Iron(III) (IIII) Barium (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		P

^{*}The acetate group, CH₃COO is written first as this correctly shows the position of the ionic bond. Eg. CH₃COO Na

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