# **Unit 4: Ch 8 – Nomenclature: Ionic Compounds**

MONATOMIC CATIONS:		
DEFINITION –		
<ul> <li>MUST MEMORIZE:;;</li> <li>NAMING -</li> </ul>	;;;;	;
o Ex) =		
o Ex) =		
MONATOMIC ANIONS:		
DEFINITION –		
NAMING -		
o Ex) =	<del></del>	
o Ex) =		
o Ex) =		
BINARY IONIC COMPOUNDS:		
DEFINITION –		
<ul><li>Formed from the</li></ul>	of	·
o EXPRESSION:		_
CHEMICAL FORMULAS:		
DEFINITION – Element	and	that indicate the
	of each element in the	
○ Ev) →	Iron and Ovugen atoms	

### **WRITING IONIC FORMULAS:**

# **WRITING RULES VIA CRISS-CROSS METHOD:**

	0	1. <i>From</i> chemical name, write	and	side by side.
		■ Ex) Silver Nitride →		
		■ Ex) Barium Oxide →		
	0	2. Cross over	of (with	out sign) as a
		of	the other.	
		■ Ex) Silver Nitride →	=	_
		■ Ex) Barium Oxide →	=	_
	0	3. <i>Always</i>	subscripts possible.	
		■ WHY? →	whole number	·
		■ Ex) Silver Nitride →	=	_
		■ Ex) Barium Oxide →	=	_
	0	4a	can carry	charges.
		•	are used to show its	charge.
		• Ex)	;;	
		• Ex)	;;	
	0	4b. Special	metal <i>cations</i> : <i>MEM</i>	ORIZE!!!
		• Ex)	;;	
		• Ex)	;;	
>	PRACT	TICE: WRITING		
	0	Ex #1) Copper (II) Fluoride →	==	
			=_	
		Ex #3) Calcium Sulfide →		

### **NAMING IONIC COMPOUNDS:**

# > NAMING RULES:

name.	<i>(cation)</i> by its	1. From formula, name	0
	in	■ Include	
	d. → REMEMBER EXCEPTIONS!	name neede	
its ending	( <i>anion)</i> by	2. Name the	0
		and add	
(neutral)	_ charge of ionic compounds <b>ALWAYS</b> =	3. If done correctly,	0
		TICE: NAMING	> PRACT
	>	Ex #1) SnO <sub>2</sub> $\rightarrow$	0
	>	Ex #2) Fe <sub>2</sub> O <sub>3</sub> →	0
	$\rightarrow$	Ex #3) MgF₂ →	0