Name:			
Blk:	_Date:_		,

Science 9 Names and Formulas of Ionic Compounds Continued

Steps for writing **simple ionic compounds using the criss-cross** method:

<u>memou:</u>	
Steps	Example 1: Calcium chloride
1. Identify each ion (be sure to	Ca ²⁺
write down the <u>charge</u>)	
Always metal first non-metal	CI ¹⁻
second	
2. Drop the (+) and (-) signs	Ca ² Cl ¹
from the ion charge, then CRISS-	
CROSS them writing them as	
<u>subscripts</u>	Ca ₁ Cl ₂
3.Drop any <u>1's</u> from the formula	CaCl ₂
4.Reduce subscripts (if possible):	NA
divide BOTH subscripts by the	
greatest common factor	
5.Write the final formula	CaCl ₂

Example 2: Lithium Fluoride 1. Li^{1+} and F^{1-}

- 2. Li¹ and F¹
- $3.Li_1F_1$
- 4. LiF

Example 3: Scandium nitride 1. Sc^{3+} and N^{3-} 2. Sc^3 and N^3

- $3.Sc_3N_3$
- 4.ScN

Now do the worksheets titled Writing Simple Formulas the criss-cross method and assignment #1