Nam	e:					_ Period:		
Writing Chemical Formulas – Crisscross Method								
Physical Science Standard SPS2.b: Predict formulas for stable binary ionic compounds based on balance of charges								
 Directions: Write the formulas of the compounds produced from the following ions. Remember that Overall charge must equal zero. If charges cancel, just write the symbols. If not, crisscross the charges to find subscripts. Use parentheses when more than one polyatomic ion is needed. The metal (cation) MUST be written first in chemical formulas. 								
		S ⁻²	Cl ⁻¹	N ⁻³	SO ₃ -2	PO ₄ -3	NO ₃ -1	SO ₄ -2
1	Na ⁺¹			Na₃N				
2	Sr ⁺²					Sr ₃ (PO ₄) ₂		
3	Ga ⁺³		GaCl ₃					
4	K ⁺¹							
5	Mg ⁺²							

Al⁺³

 H^{+1}

 Fe^{+2}

7

8

HCl