

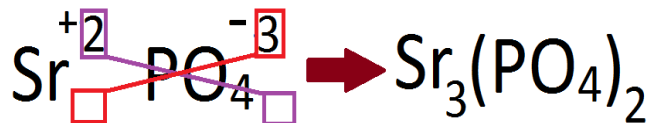
Name: _____ Date: _____ Period: _____

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			Na ₃ N				
2	Sr ⁺²					Sr ₃ (PO ₄) ₂		
3	Ga ⁺³		GaCl ₃					
4	K ⁺¹							
5	Mg ⁺²							
6	Al ⁺³							
7	H ⁺¹		HCl					
8	Fe ⁺²							