

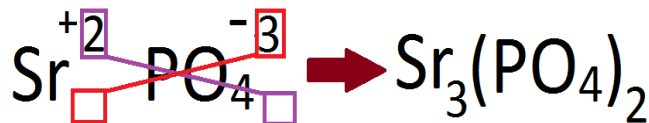
Name: _____ Date: _____ Period: _____

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_3N				
2	Sr^{+2}					$\text{Sr}_3(\text{PO}_4)_2$		
3	Ga^{+3}		GaCl_3					
4	K^{+1}							
5	Mg^{+2}							
6	Al^{+3}							
7	H^{+1}		HCl					
8	Fe^{+2}							