

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 4I – Writing Single Replacement Reactions

20 Points

For the following reactions, write the products of each reaction following the template provided. Show work for ionic compound

Reaction	Na + CuCl ₂ → _____ + _____					
A	+	BC	→	AC	+	B
	+		→		+	

	A	C
Element or Ion		

Ion Charge		
Cross Method Final Formula		

Reaction	Al + SnO ₂ → _____ + _____					
A	+	BC	→	AC	+	B
	+		→		+	

	A	C
Element or Ion		

Ion Charge		
Cross Method Final Formula		

Reaction	Mg + ZnBr → _____ + _____					
A	+	BC	→	AC	+	B
	+		→		+	

	A	C
Element or Ion		

Ion Charge		
Cross Method Final Formula		

Reaction	Fe ³⁺ + Hg ₃ N ₂ → _____ + _____					
A	+	BC	→	AC	+	B
	+		→		+	

	A	C
Element or Ion		

Ion Charge		
Cross Method Final Formula		

Reaction	$\text{Mn}^{3+} + \text{NiS} \rightarrow \text{ ______ } + \text{ ______ }$					
A + BC → AC + B						
	+		→		+	

	A	C
Element or Ion		
Ion Charge		
Cross Method Final Formula		

Reaction	$\text{Sr} + \text{AlP} \rightarrow \text{ ______ } + \text{ ______ }$					
A + BC → AC + B						
	+		→		+	

	A	C
Element or Ion		
Ion Charge		
Cross Method Final Formula		

Reaction	$\text{Cd}^{3+} + \text{PbBr}_4 \rightarrow \text{ ______ } + \text{ ______ }$					
A + BC → AC + B						
	+		→		+	

	A	C
Element or Ion		
Ion Charge		
Cross Method Final Formula		

Reaction	$\text{Cr}^{2+} + \text{Ag}_2\text{S} \rightarrow \text{ ______ } + \text{ ______ }$					
A + BC → AC + B						
	+		→		+	

	A	C
Element or Ion		
Ion Charge		
Cross Method Final Formula		