

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 4N – Writing Chemical Reaction Review

20 Points

Answer the following questions based on combustion reactions

Define <i>Combustion Reaction</i>	Define <i>Incomplete Combustion Reaction</i>
Write the base reaction for the <i>complete combustion reaction</i>	Write the base reaction for the <i>incomplete combustion reaction</i>

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

Reaction	$\text{Ca} + \text{N}_2 \rightarrow \underline{\hspace{2cm}}$			
A	+	B	\rightarrow	AB
A		B		

Reaction	$\text{Ni}^{3+} + \text{S}_2\text{O}_3^{2-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	\rightarrow	AB
A		B		

Formula	A	B
Ion Charge		
Cross Method		
AB		

Formula	A	B
Ion Charge		
Cross Method		
AB		

Reaction	$\text{SnSe}_2 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$			
AB	\rightarrow	A	+	B
AB		A		B

Reaction	$\text{H}_2\text{CO}_3 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$			
AB	\rightarrow	A	+	B
AB		A		B

Reaction	$\text{Co} + \text{InF}_3 \rightarrow \text{---} + \text{---}$ Co = +2			Reaction	$\text{Rb} + \text{Pd}_2(\text{HPO}_4)_3 \rightarrow \text{---} + \text{---}$		
A + BC → AC + B				A + BC → AC + B			
A		BC		A		BC	
B				B			

Formula	A	C
Ion Charge		
Cross Method		
AC		

Formula	A	C
Ion Charge		
Cross Method		
AC		

Reaction	$\text{Mo}(\text{OCN})_3 + \text{AgI} \rightarrow \text{---} + \text{---}$ Mo = +3 Ag = +1			Reaction	$\text{H}_3\text{PO}_4 + \text{W}(\text{OH})_6 \rightarrow \text{---} + \text{---}$ W = +6		
AB + CD → AD + CB				AB + CD → AD + CB			
AB		CD		AB		CD	

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				