

Name _____ Period _____

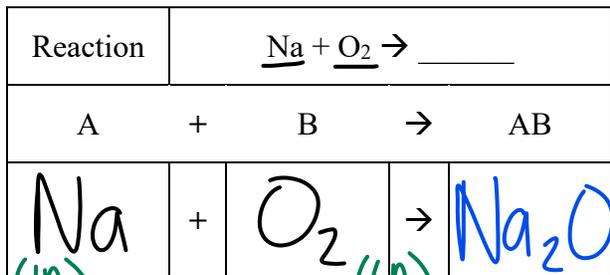
College Prep Chemistry of the Earth

Assignment 4F – Writing Combination Reactions

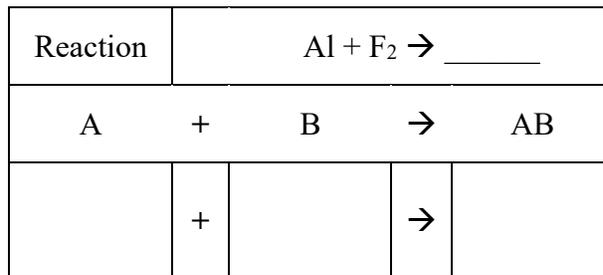
20 Points

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

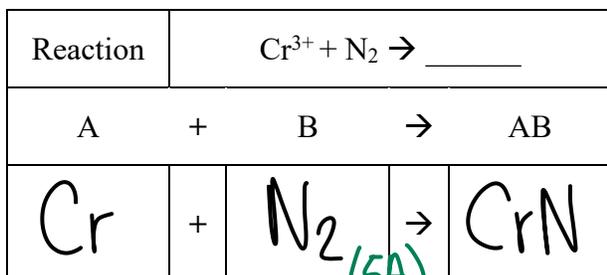
Combination Reaction
 $A + B \rightarrow AB$
 1A: +1 2A: +2
 3A: +3
 5A: -3 6A: -2
 7A: -1



Formula	A	B
Ion Charge	+1	-2
Cross Method		
AB	Na ₂ O _x	

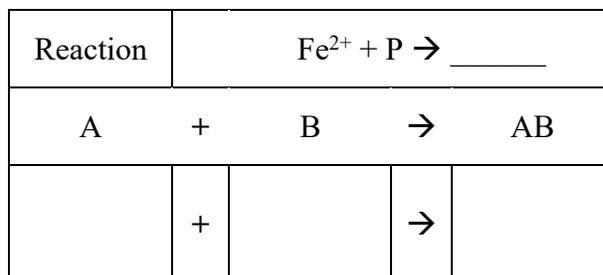


Formula	A	B
Ion Charge		
Cross Method		
AB		



Formula	A	B
Ion Charge	+3	-3
Cross Method		
AB	Cr ₃ N ₃	

$\frac{3}{3} \frac{3}{3}$ Reduce
CrN



Formula	A	B
Ion Charge		
Cross Method		
AB		

Reaction	$Ti^{4+} + I_2 \rightarrow \underline{\hspace{2cm}}$			
A	+	B	\rightarrow	AB
	+		\rightarrow	

Reaction	$W^{6+} + O_2 \rightarrow \underline{\hspace{2cm}}$			
A	+	B	\rightarrow	AB
W	+	O ₂	\rightarrow	WO ₃

Formula	A	B
Ion Charge		
Cross Method		
AB		

no charge

Formula	A	B
Ion Charge	+6	-2
Cross Method	W O	
AB	W_2O_6 <u>2</u> <u>2</u>	

~~W₁O₃~~
WO₃

Reaction	$V^{3+} + S \rightarrow \underline{\hspace{2cm}}$			
A	+	B	\rightarrow	AB
	+		\rightarrow	

Reaction	$Pb^{4+} + N_2 \rightarrow \underline{\hspace{2cm}}$			
A	+	B	\rightarrow	AB
	+		\rightarrow	

Formula	A	B
Ion Charge		
Cross Method		
AB		

Formula	A	B
Ion Charge		
Cross Method		
AB		