

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 4J – Writing Single Replacement Reactions

20 Points

Answer the following questions based on single replacement reactions

Define <i>Single Replacement Reaction</i>	Define <i>Chemical Activity</i>

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

Reaction	$\text{Ca} + \text{Na}_2\text{O} \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$				Reaction	$\text{Al} + \text{CaBr}_2 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$			
$\text{A} + \text{BC} \rightarrow \text{AC} + \text{B}$					$\text{A} + \text{BC} \rightarrow \text{AC} + \text{B}$				
A		BC		B	A		BC		B

Formula	A	C
Ion Charge		
Cross Method		
AC		

Formula	A	C
Ion Charge		
Cross Method		
AC		

Reaction	$\text{Mg} + \text{Ba}_3\text{N}_2 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$				Reaction	$\text{K} + \text{H}_3\text{P} \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$			
$\text{A} + \text{BC} \rightarrow \text{AC} + \text{B}$					$\text{A} + \text{BC} \rightarrow \text{AC} + \text{B}$				
A		BC		B	A		BC		B

Formula	A	C
Ion Charge		
Cross Method		
AC		

Formula	A	C
Ion Charge		
Cross Method		
AC		

Reaction	$Zn^{1+} + MgS \rightarrow \underline{\quad} + \underline{\quad}$				Reaction	$Pb^{4+} + Li_3N \rightarrow \underline{\quad} + \underline{\quad}$			
$A + BC \rightarrow AC + B$					$A + BC \rightarrow AC + B$				
A		BC		B	A		BC		B

Formula	A	C
Ion Charge		
Cross Method		
AC		

Formula	A	C
Ion Charge		
Cross Method		
AC		

Reaction	$V^{3+} + CuCl_2 \rightarrow \underline{\quad} + \underline{\quad}$				Reaction	$Fe^{2+} + SnO_2 \rightarrow \underline{\quad} + \underline{\quad}$			
$A + BC \rightarrow AC + B$					$A + BC \rightarrow AC + B$				
A		BC		B	A		BC		B

Formula	A	C
Ion Charge		
Cross Method		
AC		

Formula	A	C
Ion Charge		
Cross Method		
AC		

Reaction	$W^{6+} + CoF_2 \rightarrow \underline{\quad} + \underline{\quad}$				Reaction	$H_2 + Nb_2S_3 \rightarrow \underline{\quad} + \underline{\quad}$			
$A + BC \rightarrow AC + B$					$A + BC \rightarrow AC + B$				
A		BC		B	A		BC		B

Formula	A	C
Ion Charge		
Cross Method		
AC		

Formula	A	C
Ion Charge		
Cross Method		
AC		

