Name Selected Answers Period ___________

College Prep Chemistry of the Earth

Assignment 4L – Writing Double Replacement Reactions 20 Points

Answer the following questions based on double replacement reactions

Define *Double Replacement Reaction*	Define *Acid Base Reaction*

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

A | B
$SrCl_2$ → Sr | Cl

C | D
V_2O_3 → V | O

Reaction	$SrCl_2 + V_2O_3 \rightarrow$ ____ + ____ (V = +3)		
AB + CD → AD + CB			
AB	$SrCl_2$	CB	V_2O_3

Formula	A (2A)	D (6A)	C (+3)	B (7A)
Ion Charge	+2	−2	+3	−1
Cross Method	Sr	O	V	Cl
AD CB	SrO*		VCl_3	

*Sr_2O_2 ÷ 2 → SrO (Reduce!)

Reaction	$Al_2O_3 + CrF_2 \rightarrow$ ____ + ____ (Cr = +2)		
AB + CD → AD + CB			
AB		CB	

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				

Reaction	$K_3N + FeCl_2 \rightarrow$ ____ + ____ (Fe = +2)		
AB + CD → AD + CB			
AB		CB	

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				

Reaction	$TiS_2 + Mn_2O_3 \rightarrow$ ____ + ____ (Ti = +4 Mn = +3)		
AB + CD → AD + CB			
AB	TiS_2	CB	Mn_2O_3

Formula	A (+4)	D (6A)	C (+3)	B (6A)
Ion Charge	+4	−2	+3	−2
Cross Method	Ti	O	Mn	S
AD CB	TiO_2*		Mn_2S_3	

A | B
TiS_2 → Ti | S

C | D
Mn_2O_3 → Mn | O

*Ti_2O_4 ÷ 2 → TiO_2 Reduce!

Reaction	$AlP + CuO \rightarrow$ ____ + ____ Cu = +2		
AB + CD → AD + CB			
AB		CB	

Reaction	$SnSe_2 + AgI \rightarrow$ ____ + ____ Sn = +4 Ag = +1		
AB + CD → AD + CB			
AB		CB	

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				

Reaction	$WN_2 + ZnF \rightarrow$ ____ + ____ W = +6 Zn = +1		
AB + CD → AD + CB			
AB		CB	

Reaction	$Pb_3N_2 + FeBr_2 \rightarrow$ ____ + ____ Pb = +4 Fe = +2		
AB + CD → AD + CB			
AB		CB	

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				

Formula	A	D	C	B
Ion Charge				
Cross Method				
AD CB				