Name	Pren Chem	istry of the	Farth				Per	iod
_		-	ctions – Single R	Leplacem	ent	Reactions		20 Points
_		g questions	_	•				
De	How is a Single Replace and Combo Alike							
Single	Single Replacement Reaction General Form			How are Single Replace and Decomp Alike				
	_		termine the react ad CB from each t			rite the genero	al form	for the reaction,
	$3Ca + 2FeBr_3 \rightarrow 3CaBr_2 + 2Fe$			$6Li + Al_2O_3 \rightarrow 3Li_2O + 2Al$				+ 2A1
Reaction Type				Reaction Type	n			
Genera Form				Genera Form	ıl			
A		В		A			В	
С		Ratio		С			Ratio	
AC		СВ		AC			СВ	
$Mg + 2ZnBrO_3 \rightarrow Mg(BrO_3)_2 + 2Zn$			$4V + 3Pb(SO_4)_2 \rightarrow 2V_2(SO_4)_3 + 3Pb$					
Reaction Type				Reactio Type	n			
Genera Form				Genera Form				
A		В		A			В	
С		Ratio		С			Ratio	

AC

CB

AC

CB

$4Cu + Sn3(PO4)4 \rightarrow 4CuPO4 + 3Sn$			$Fe + Ag_2CO_3 \rightarrow FeCO_3 + 2Ag$					
Reaction Type				Reaction Type				
Genera Form				Gener Form				
A		В		A			В	
С		Ratio		С			Ratio	
AC		СВ		AC			СВ	

Activity Series for Rep and Transition Metals

and Transition Metals					
Most Active					
Symbol	Name				
Li	Lithium				
K	Potassium				
Ba	Barium				
Sr	Strontium				
Ca	Calcium				
Na	Sodium				
Mg	Magnesium				
Al	Aluminum				
Mn	Manganese				
Zn	Zinc				
Cr	Chromium				
Fe	Iron				
Cd	Cadmium				
Co	Cobalt				
Ni	Nickel				
Sn	Tin				
Pb	Lead				
Н	Hydrogen				
Sb	Antimony				
Bi	Bismuth				
Cu	Copper				
Hg	Mercury				
Ag	Silver				
Pt	Platinum				
Au	Gold				
Least Active					

Answer the following questions

What is the activity series?	What two things determine an element's activity?

For the following reactions, determine if the reaction will occur based on the activity series.

Single Replacement Reaction	Will Reaction Occur?
3Na + CuCl ₃ → 3NaCl + Cu	
$2Fe + 3MnO \rightarrow Fe_2O_3 + 3Mn$	
$Cu + 2HOH \rightarrow H_2 + Cu(OH)_2$	
$2Ni + Pb(SO_4)_2 \rightarrow Pb + 2NiSO_4$	

Note: HOH is the same as H_2O (Water)