Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 5P – Types of Reactions – Double Replacement Reactions 20 Points

Answer the following questions

Define Double Replacement Reaction	Define Acid Base Reaction
Double Replacement Reaction General Form	Acid Base Reaction General Form
Why are gases or precipitates required for a double replacement reaction?	Define a Binary and Polyatomic Acid
What determines whether a compound will be aqueous or produce a precipitate	Define a Base

For the following reactions, determine the reaction type, write the general form for the reaction, then identify A, B, C, D and AB, CD, AD, CB

$Na_2S + CaCl_2 \rightarrow 2NaCl + CaS$		$4Cu(NO_3)_3 + 3PbF_4 \rightarrow 4CuF_3 + 3Pb(NO_3)_4$	
Reaction Type		Reaction Type	
General Form		General Form	

A		B		A		B	
C		D		C		D	
AB		CD		AB		CD	
AD		CB		AD		CB	
Ratio				Ratio			

$3Ag_2SO_4 + 2Al(CN)_3 \rightarrow 6AgCN + Al_2(SO_4)_3$	
Reaction Type	
General Form	

A		B	
C		D	
AB		CD	
AD		CB	
Ratio			

$HCl + NaOH \rightarrow NaCl + HOH$	
Reaction Type	
General Form	

A		B	
C		D	
AB		CD	
AD		CB	
Ratio			

$H_2CO_3 + 2ZnOH \rightarrow Zn_2CO_3 + 2HOH$	
Reaction Type	
General Form	

A		B	
C		D	
AB		CD	
AD		CB	
Ratio			

$4H_3PO_4 + 3Pb(OH)_4 \rightarrow Pb_3(PO_4)_4 + 12HOH$	
Reaction Type	
General Form	

A		B	
C		D	
AB		CD	
AD		CB	
Ratio			

Note: HOH is the acid/base form of H_2O (Water)