

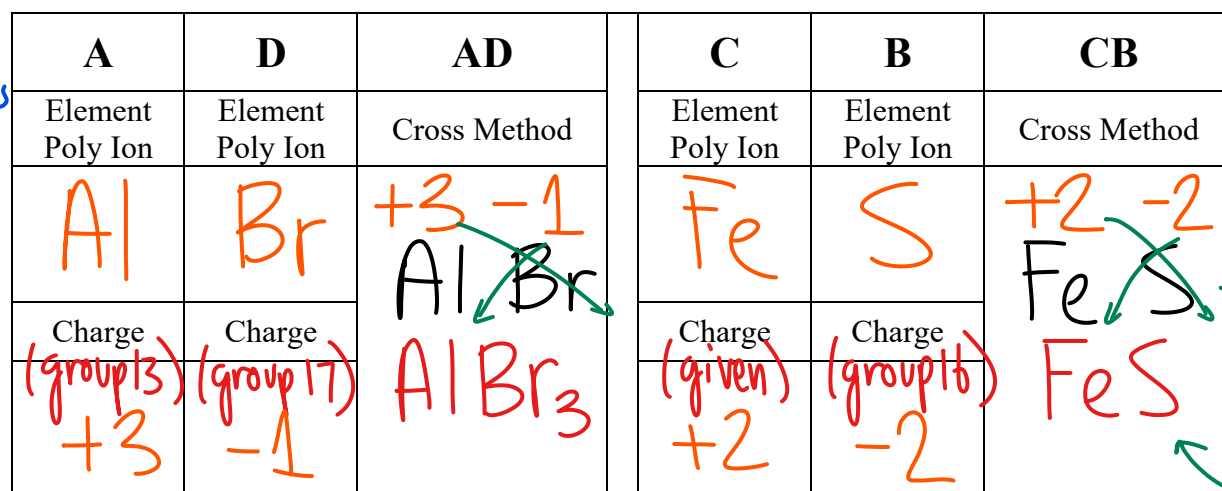
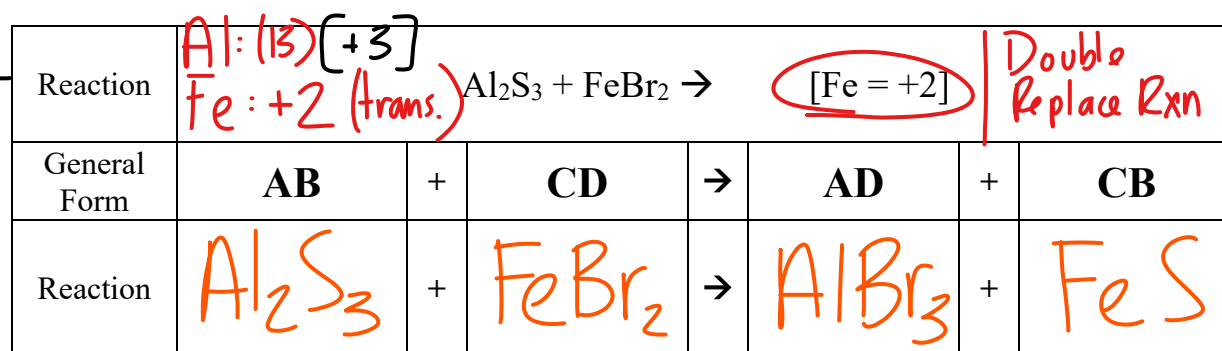
Name _____ Period _____

CP Chemistry of the Earth

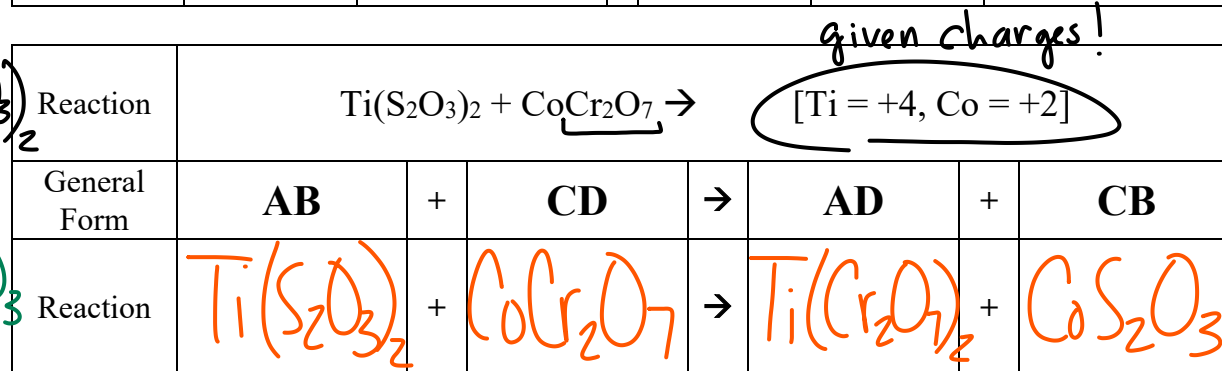
Assignment 4P – Double Replacement Reaction Review

20 Points

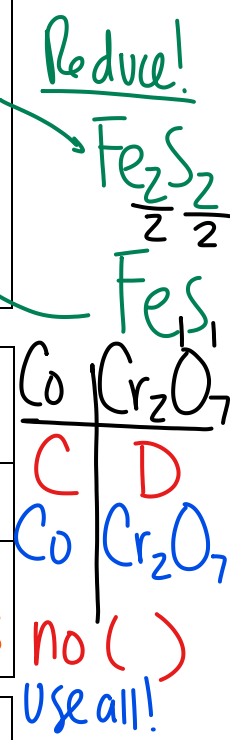
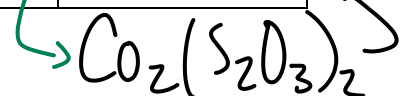
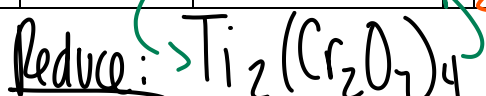
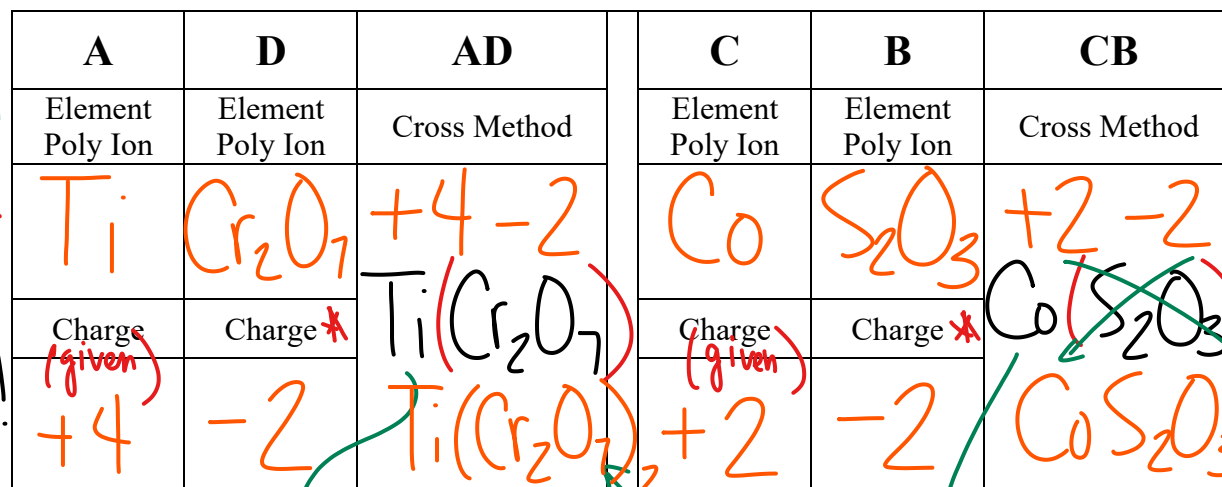
Complete the following double replacement chemical reactions, including showing the cross method and all work. No Work = No Credit!



Elements
Ti, S, O



S₂O₃ is a poly. ion
Charge * poly ion
use chart!



Don't Forget ()!
min work!

Reaction	$\text{HCl} + \text{Ni}(\text{OH})_3 \rightarrow [\text{Ni} = +3]$						
General Form	AB	+	CD	$\rightarrow$	AD	+	CB
Reaction		+		$\rightarrow$		+	

A	D	AD		C	B	CB
Element Poly Ion	Element Poly Ion	Cross Method		Element Poly Ion	Element Poly Ion	Cross Method
Charge	Charge			Charge	Charge	

<u>Acid</u>		Reaction	$\text{H}_2\text{CO}_3 + \text{Cu}(\text{OH})_3 \rightarrow$ $[\text{Cu} = +3]$ ^{Charge}					<u>Base</u>			
H_2	CO_3	General Form	AB	+	CD	$\rightarrow$	AD	+	CB	Cu	$(\text{OH})_3$
A	B	Reaction	H_2CO_3	+	$\text{Cu}(\text{OH})_3$	$\rightarrow$	HOH	+	$\text{Cu}_2(\text{OH})_3$	C	D
H	CO_3									Cu	OH
poly ion										base poly ion	
A	D	AD				C	B	CB			
Element Poly Ion	Element Poly Ion	Cross Method				Element Poly Ion	Element Poly Ion	Cross Method			
H	OH	+1 -1				Cu	CO_3	+3 -2			
(Charge)	(poly)	H(OH)				(given)	(poly)	Cu(CO₃)			
+1	-1	HOH				+3	-2	$\text{Cu}_2(\text{CO}_3)_3$			

(Always HOH = H_2O , water)

min work!