Chemis	Name:				Date:			Block		
Lab: Sir	ngle-R	eplac	en	nent Reacti	ions					
Rxn		Evidence of Reaction								
1										
2										
3										
4										
5										
6										
Rxn					Balanced	Chemical Equat	ions (Include F	Phases)		
1	Cu(	(s) -	F	AgNO <sub>3</sub> (aq)	>					
2	Fe(	s) -	-	CuSO <sub>4</sub> (aq)	>					
3	Zn(	(s) +	-	Fe(NO <sub>3</sub> ) <sub>3</sub> (ac	η)>					
4	Zn(	(s) +	-	MgSO <sub>4</sub> (aq)	>					
5	Cu(s) +		<u>-</u>	HCl(aq)	>					
6	Zn(	(s) -	-	HCl(aq)	>					
Questions 1.) Comp the above	lete the			table by writin	ng the symbo	ols of the two e	elements whos	e reactivities w	vere tested in e	ach of
			ĺ	1	2	3	4	5	6	
More active		re								· 

Less active

(over)

2.) Arrange Fe, Mg, and Zn in order of their activities, listing the most active first:	(1)
	(2)
	(3)
3.) Arrange Cu, Ag, and Zn in order of their activities, listing the most active first:	(1)
	(2)
	(3)
4.) Arrange Mg, H, and Ag in order of their activities, listing the most active first:	(1)
	(2)
	(3)
5.) Arrange all five of the metals in an activity series, listing the most active first:	(1)
	(2)
	(3)
	(4)
	(5)
6.) On the basis of the reactions observed, explain why the position of hydrogen can of the other elements listed in the activity series in question 5.	nnot be fixed exactly with respect to a
7.) What <u>one</u> additional test would be needed to establish the exact position of hyd specific, using only the reactants that were available in this investigation.]	rogen in the activity series? [Be
8.) Using the data from this experiment:	
(a) Would silver metal react with hydrochloric acid? (b) Would magnesium metal react with hydrochloric acid?	