## **Experiment 8 Worksheet:** Redox Reactions: Creation of a Potential Series

Purpose: (A	statement should be made here regarding what your experiment is designed to accomplish.)
	(Describe here how you went about completing your experiment. Use enough detail that repeat it, if necessary. Also reference any books or manuals you may have used to assist

## Data:

(Complete the Table using experimental results)

Metal Solution	Appearance	Potential Versus Mg(NO <sub>3</sub> ) <sub>2</sub>	Potential Versus Fe(NO <sub>3</sub> ) <sub>3</sub>	Potential Versus Cu(NO <sub>3</sub> ) <sub>2</sub>
Mg(NO <sub>3</sub> ) <sub>2</sub>		XXXXXXXXX		
Fe(NO <sub>3</sub> ) <sub>3</sub>			XXXXXXXX	
Cu(NO <sub>3</sub> ) <sub>2</sub>				XXXXXXXX

<u>Calculations:</u>
Show the order of potentials for the three metals from most oxidizing to least
oxidizing:
valuizing.
Show the order of potentials for the three metals from most reducing to least
-
reducing:
Conclusions: (In your conclusion discuss the relationship between the weakest reducing metal and the
strongest oxidizing metal. Summarize your results here and discuss possible errors that may have occurred
during the testing.)