Nam	e:	Date:	Period:	Seat #:	
	Balancing Redox Equations An acidified solution of potassium	dichromate is added to a	solution of iron(II)) sulfate.	
	Aluminum metal is added to a stron hydrogen gas and the complex ion,		dium hydroxide for	ming bubbles of	
	Electrolysis Reactions Use your Reduction Potential Chart the overall reaction during the elect			ction at the cathode, ar	nd
	Electrolysis Stoichiometry A current of 2.50 amps is passed the What mass of Ni metal is deposited		IO3)2 for 2.00 hours	;.	
	Predicting Spontaneous (Product-F) State whether each reaction below is $ \underline{\qquad} Br_2 + 2Cl^- \rightarrow Cl_2 + 2Br^- \\ \underline{\qquad} Cu^{2+} + 2I^- \rightarrow I_2 + Cu \\ 2Au^{3+} + 3Zn \rightarrow 3Zn^{2+} + 2Au^{3+} + 3Zn \rightarrow 3Zn^{2+} + 2Au^{3+} + + 2Au^{3+}$	s product-favored or not	t. Use your reducti	on potential chart.	

of Zn(II) sulfate.	$Au^{3+} + 3e^- \rightarrow Au(s)$	+1.50		
	$n^{2+}(aq) + 2e^{-} \rightarrow Zn(s)$	-0.763		
Anode Reaction	Sketch the	Cell	Cathode Reaction	
	Overall Reaction	& E° (volts)		
	O VOIGH TECCHON	Control (vents)		
Non-Standard Electrochen Calculate the voltage of the Alkali Metal in Water	nical Cell are above cell if the $[Au^{3+}] = 5$.00 M and $[Zn^{2+}] = 0.100$	0 <u>M</u> .	
Write the balanced chemic	cal equation for the reaction of	of potassium metal dropp	ed into water.	
Oxidation-Reduction of All Which element in the chement in the chement was	kali Metals in Water mical equation above, was ox as oxidized and was the	<u>iidized</u> and which elemen agent		
Oxidation-Reduction of All Which element in the cher Water Electrolysis of Water	kali Metals in Water mical equation above, was <u>ox</u>	<u>ridized</u> and which elemen agent agent	nt was <u>reduced</u> ?	
Oxidation-Reduction of All Which element in the cher Wa Wa Electrolysis of Water Write the balanced chemic	kali Metals in Water mical equation above, was ox as oxidized and was the as reduced and was the	cidized and which elemen agent agent sis (or decomposition) of	nt was <u>reduced</u> ?	
Oxidation-Reduction of All Which element in the cher Wa Wa Electrolysis of Water Write the balanced chemic	kali Metals in Water mical equation above, was ox as oxidized and was the as reduced and was the cal equation for the electrolys	cidized and which elemen agent agent sis (or decomposition) of	nt was <u>reduced</u> ?	