Name:	:Official Class:Date:					
Feach	er:Period:Class:					
	Introduction to Electrochemical Cells Practice Questions					
COMI	PREHENSION QUESTIONS: Use the reading above to help answer the following questions.					
1.	What is a voltaic cell? a type of electrochemical cell which involves a sponteneas cremical reaction (cremical energy > electrical energy)					
2.	What is an electrolytic cell? a type of electrochemical cell which requires energy (electric current) to force a now spontaneous reaction (electrical energy) -> chemical energy)					
3. Which electrochemical cell is spontaneous? Which electrochemical cell is non-spontaneous						
	-Voltaic cells are spontaneous					
	- electrolytic cells are non-spontaneous.					
4.	What happens when something is oxidized? What happens when something is reduced?					
	-when something is oxidized, electrons are lest and oxidation # increases					
	-when something is reduced, electrons are gamed and oxidation of decrease					
5.	What occurs at the anode? What occurs at the cathode?					
	Oxidertion occurs at the arode always					
	reduction happens at the cathode always					
6.	What is the function of the salt bridge?					
	the sall bridges allows for ion Hemsfer.					
7.	Which way to do the electrons travel to?					
	electrons flow arode to cathode-always					
8.	How can Table J be used to determine the anode and cathode?					
	of the two metals - the higher one loses e, isoxidized, is another					

Helower one genns et, is reduced is cathode

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USING TABLE J: Use Table J to determine which is electrode is the anode and which is the cathode, and							
determine if it is oxidized or reduced.							
1.	Cu & Zn	¥					
	a Zn_	is the anode and is being _	oxidized	because electrons are	1054.		
		is the cathode and is being		_ because electrons are _ because electrons are	gained.		
					0		
2.	Pb & Zn						
	a. <u>ZY</u>	is the anode and is being _	Oxigisecy	_ because electrons are _ because electrons are	10St.		
	b. <u>Yb</u>	is the cathode and is being	reduced	_ because electrons are	garneer		
•	D 471				U		
3.	Ba & Li	5- 45	2012		lact		
	a	is the anode and is being _	Optal zec	_ because electrons are _ because electrons are	1051		
	р	is the cathode and is being	reduced	Decause electrons are	gairen.		
4	Au and Pb				O		
••		is the anode and is being	oxidized	because electrons are	lost.		
	b. Au	is the anode and is being is the cathode and is being _	reduced	_ because electrons are _ because electrons are	garneel.		
		.			8		
5.	Mn and Zn						
	a. Mn	is the anode and is being _	oxidized	because electrons are _	1081.		
	b. <u>Zn</u>	is the cathode and is being	reduced	_ because electrons are _ because electrons are	gained.		
					8		
6.	Fe & Zn		420-0		la Cal		
		is the anode and is being _		_ because electrons are _ because electrons are	7051		
	b. <u>fe</u>	is the cathode and is being	reduced	_ pecause electrons are	- gaineu.		
7	Co & Ca				U		
1.	a Ca	is the anode and is being _	oxidized	because electrons are	1054		
	b . Co	is the cathode and is being	reduced	because electrons are	gained.		
		, Jan 19 19 19 19 19 19 19 19 19 19 19 19 19			Jan.		
8.	Co & Ni						
		is the anode and is being _	Oxidized	because electrons are	lost.		
	b. <u>Vi</u>	is the cathode and is being	reduced	because electrons are	garred.		
					0		
9.		3 93 9 90 9	0/1/01		1		
		is the anode and is being _	oxidized	because electrons are	1057		
	b. <u>(u</u>	is the cathode and is being	reduced	because electrons are	gaineel.		
10.	Zn & Al		6.10.1	hanne sladens	Ind		
		is the anode and is being _	oxidized	because electrons are	003.		
	b. <u>Zn</u>	is the cathode and is being	riduced	because electrons are	Johnson.		