Name:			
Due:			

Electrochemistry in Everyday Life

A brochure assignment

Purpose:

Students will be able to use the concept of spontaneous and non-spontaneous reactions to explain practical applications of reduction-oxidation (redox) reactions.

Background:

By now, you should have some appreciation of the wide variety of electrochemical reactions that you encounter daily. The study of electrochemistry is an enormous filed responsible for billions of dollars annually in industry. This unit has been a brief introduction to the world of Electrochemistry aka Redox Chemistry. In this activity, you will have the opportunity to explore your choice of applied redox reactions.

Procedure:

- 1. Choose one of the examples of electrochemistry in everyday life:
 - batteries
 - electroplating
 - electrorefining
- 2. Research (using appropriated sources) and explain:
 - The parts (or components)
 - The Voltages (either required or produced)
 - The half reactions involved
 - Various practical applications
- 3. Create a brochure to present this information (you will be provided with card stock)
 - Create a six-page brochure using a Microsoft Word Brochure Template (or other)
 - The front page will serve as the "Title Page"
 - The back page will be your "bibliography"
 - The remaining four pages must be used to display the research you have uncovered for the four topics listed above
 - Presentation is important, I want it to be "eye-catching" with images (create a brochure that you would want to pick up while waiting for an appointment)

Criteria	1	2	3	4
Title Page	Student has put in	Student has put in	Student has put in	Student has put in
	no effort	minimal effort	significant effort	an exceptional
				effort
Topics:	Not enough	The topic is	The topic is	The topics is
"parts, voltage,	relevant	supported with	detailed and	presented with
and involved half-	information on	detail, but	provides relevant	exceptional
reactions"	the topic	includes irrelevant	information	information to
		information		support the topic
"practical	Not enough	The topic is	The topic is	The topics is
applications"	relevant	supported with	detailed and	presented with
	information on	detail, but	provides relevant	exceptional
	the topic	includes irrelevant	information	information to
		information		support the topic
Bibliography	Student uses	Student uses a	Student uses	Student uses
	material from few	variety of sources,	variety of sources,	variety of sources,
	sources	not all relevant	All relevant	all very relevant
Supporting	Few "images" are	Some "images"	"images" are	"images" are
Materials	present	are present	present	present and of
			throughout	exceptional
				quality
Grammar	Serious grammar	Few grammar and	Brochure is free	No Grammar or
	and spelling	spelling errors are	of grammar and	spelling errors,
	errors are present	present	spelling errors	use of language is
				varied and
				creative.

Total Score:	/ 24
--------------	------