SCH4U	Assignment 1
Electrochemistry	Assignment 1

Each question will be marked on a 4-point scale:

Score	Description
0	Incorrect response (e.g. incorrect formula(s) used to solve the problem, no attempt to solve the problem, etc.)
1	Partially correct response/solution (e.g. attempted to use correct formula(s), partially solved the problem, etc.)
2	Almost correct response/solution (e.g. only mistake is incorrect units, incorrect sign, incorrect number of significant digits, etc.)
3	Correct response/solution (e.g. correct answer, correct units included, correct number of significant digits, etc.)

Total				/12
Question #1-d	o	1	2	3
Question #1-c	0	1	2	3
Question #1-b	0	1	2	3
Question #1-a	O	1	2	3



~ 1 of 3 ~ SCH4U

Date: Name(s):

- Balance each equation. Use the oxidation number method for a) and
 Use the half reaction method for b) and d).
 - a. $\operatorname{Cr_2O_7^{2-}} + \operatorname{Fe^{2+}} \to \operatorname{Cr^{3+}} + \operatorname{Fe^{3+}}$ (acidic conditions)

b. $S_5O_6^{2-} + ClO^- \rightarrow SO_4^{2-} + Cl^-$ (basic conditions)



Date: Name(s):

c. Al + OH⁻ \rightarrow AlO₂⁻ + H₂ (basic conditions)

d. $Cu(NH_3)_4^{2+} + S_2O_4^{2-} \rightarrow SO_3^{2-} + Cu + NH_3$ (basic conditions)

