Grading Rubric D

Name _____ Score _____ /40 _____% Grade_____

I. Introduction

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Defining Problems	1a	*	Definition of problem or issue reflects a broad, insightful view (4 of 4) ❑ **Background Information** for Part I is summarized by saying what will be proven with each test ❑ **Background Information** for Part II is summarized by saying what will be proven with each test ❑ **Background Information** for Part III is summarized by saying what will be proven with each test ❑ **Background Information** for Part IV is summarized by saying what will be proven with each test	Definition of problem or issue is reasonable and concise (3 of 4)	Definition of problem has aspects that are vague or incomplete (2 of 4)	Overall definition of problem is vague or unreasonable (1 of 4)	No work shown for this section

II. Data

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Interpreting Models	1b	*	Interprets visuals or models at a complex level (4 of 4) ❑ Data table for Part I: Fingerprint Analysis includes a table of what fingerprints are matches to which suspects ❑ Data table for Part III: Gun Shot Residue shows all titration data from each suspect's titration ❑ Data table for Part IV: Blood Analysis—two tables are reconstructed from Table 1 and Table 4 data to show blood stain and suspect matches ❑ Correct **titles and units** are used for all data tables required for this assessment	Interprets visuals or models at a general level (3 of 4)	Interpretation of visual or model contains errors that restrict understanding (2 of 4)	Shows fundamental errors in use and understanding of visual (1 of 4)	No work turned in for this section

III. Analysis-No Graph Needed

III. Analysis-Calculations

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Problem Calculations	2a	*	All essential information is evident through well-organized work while justifying the solution (4 of 4) ❑ Electrochemistry calculations for **Part II: Bullet Analysis** for matching the bullet to the gun are complete, correct, and ALL WORK is included along with units for all numbers throughout calculation ❑ The overall redox reaction and the standard cell notation are shown	Most essential information is evident through organized work while leading to the solution (3 of 4)	Minimum information is evident through work with a solution present (2 of 4)	Work is extremely unorganized with no solution present (1 of 4)	No work shown for this section

			for each gun/bullet combination for **Part II: Bullet Analysis** ❑ Calculations and the balanced neutralization reaction for **Part III: Gun Shot Residue** for the titration of each suspect sample are complete and correct ❑ Calculations for **Part IV: Blood Analysis** for the Table 1: Blood stain data are complete, correct, and ALL WORK is included along with units for all numbers throughout the calculation				

IV. Conclusions

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Connecting Ideas	1d	*	Makes insightful connections between ideas or events that might not be obvious-abstract thinking evident (4 of 4) ❑ **Part I conclusion:** All questions are answered and suspect/data collection information from Part I is considered in the answers ❑ **Part II conclusion:** All questions are answered and suspect/data collection information from Part II is considered in the answers ❑ **Part III conclusion:** All questions are answered and suspect/data collection information from Part III is considered in the answers ❑ **Part IV conclusion:** All questions are answered and suspect/data collection information from Part IV is considered in the answers	Makes general, logical connections between ideas or events; mostly concrete in nature (3 of 4)	Makes superficial connections between ideas; thinking might be confused or incomplete (2 of 4)	Makes incorrect or no connections between ideas (1 of 4)	No work shown for this section

Overall Report Formatting (Extra Credit-5 points)

Application	#	wgt	
Technology Applications	1c	*	Technology used is best available and appropriate for the required research, data representation, interpretation, and communication of results. ❑ Entire Lab Report is computer generated (5 points); including data tables and calculations typed using the computer