Grading Rubric A

Name _____ Score _____ /60 _____% Grade_____

I. Introduction

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Defining Problems	1a	½	Makes insightful connections between ideas or events that might not be obvious-abstract thinking evident (4 of 4) ❑ Background Information includes highlighted information about both the cooler and delivery truck cases and the suspect files that are relevant to answering the purpose ❑ Purpose is clearly stated and correct ❑ A hypothesis is given for both the cooler evidence testing and the delivery truck gas laws data ❑ Procedure supports purpose with a detailed, numerical list of steps for developing a density gradient for the cooler evidence	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

II. Data-Part I: The Cooler Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Interpreting Models	1b	½	Interprets visuals or models at a complex level (4 of 4) ❑ Sufficient number of tests/trials to obtain meaningful density data for each liquid sample with the blue cooler pieces ❑ All qualitative measurements are accurately recorded in a data table format, not just listed ❑ Completed data table includes a relevant **title** explaining the data sets ❑ Correct labels/units are used for the qualitative data	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

II. Data-Part II: The Delivery Truck Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Interpreting Models	1b	½	Interprets visuals or models at a complex level (4 of 4) ❑ The calculated volume for each depth is shown in a data table format ❑ All calculated measurements for converting the mmHg to atm are shown within the data table, not just listed ❑ Completed data table includes a relevant **title** explaining the data sets	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

			❑ Correct labels/units are used for both the qualitative and quantitative data				

III. Analysis-Graph Part II: The Delivery Truck Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Interpreting Models	1b	½	Interprets visuals or models at a complex level (4 of 4) ❑ Points are plotted correctly on both of the gas law graphs and even intervals are shown on both axes of the graph ❑ A best fit line is correctly drawn for each of the graphs for both relationships ❑ Completed graphs include a relevant **title** explaining the data sets ❑ Correct labels/units are used for both the x and y-axis	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—Calculations Part I: The Cooler Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Problem Calculations	2a	½	All essential information is evident through well-organized work while justifying the solution (4 of 4) ❑ Calculations (#1) for proving discussion question #1 are complete, correct, and all work was shown including units for all numbers throughout calculation ❑ Calculations (#2-#4) for proving discussion question #2 are complete, correct, and all work was shown including units for all numbers throughout calculation ❑ Calculations (#5-#7) for proving discussion question #3 are complete, correct, and all work was shown including units for all numbers throughout calculation ❑ Significant figures are considered when writing final answers for each of the calculations	Most essential information is evident through organized work while leading to the solution (3of 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

III. Analysis—Calculations Part II: The Delivery Truck Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Problem Calculations	2a	½	All essential information is evident through well-organized work while justifying the solution (4 of 4) ❑ The correct equation was shown for the gas law that was used for calculating the number of moles of gas in the airbag and the volume at each of the depths ❑ Calculations for the number of moles of gas in the airbag are complete, correct, and all work was shown ❑ Calculations for the volume of the airbag at various depths are complete, correct, and all work was shown ❑ Units for ALL numbers were consistently used throughout the calculations in this section	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

IV. Conclusion: The Cooler Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Connecting Ideas	1d	½	Makes insightful connections between ideas or events that might not be obvious-abstract thinking evident (4 of 4) ❑ The purpose is answered for which lake police should start looking around to find more evidence and designate a crime scene ❑ Specific data (evidence) from the density gradient lab work is used to support the lake choice ❑ Evidence to support or not support the hypothesis for the cooler evidence uses specific examples from the data ❑ Where is the evidence leading so far?? Any suspects more likely than others at this point based on the evidence and suspect file information? Make sure you say why!!	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

IV. Conclusion Part II: The Delivery Truck Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Connecting Ideas	1d	½	Makes insightful connections between ideas or events that might not be obvious-abstract thinking evident (4 of 4) ❑ The purpose is answered for if the police will be able to safely extract the sunken delivery truck from the lake without the volume of the airbag going over the maximum capacity ❑ Specific data (evidence) is used to support the whether or not the airbag will stay intact when the truck is retrieved from the lake ❑ Evidence to support or not support the hypothesis for the delivery truck evidence uses specific examples from the data ❑ Where is the evidence leading so far?? Any suspects more likely than others at this point based on the evidence and suspect file information? Make sure you say why!!	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

V. Discussion Questions Part I: The Cooler Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Supporting Ideas	3b	½	Support used is varied, the best available, and strongly enhances audience understanding (4 of 4) ❑ Questions #1 is answered correctly and answer is supported with data to explain why ❑ Questions #2 is answered correctly and answer is supported with data to explain why ❑ Questions #3 is answered correctly and answer is supported with data to explain why	Support is accurate and sufficiently detailed—all basics evident (3 of 4)	Support is insufficient, inaccurate, or vague in places—enough to confuse audience somewhat (2 of 4)	Support is missing, inaccurate, or vague overall (1 of 4)	No work shown for this section

			❑ Answers are written in complete sentences for all questions that require explanations				

V. Discussion Questions Part II: The Delivery Truck Evidence

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Supporting Ideas	3b	½	Support used is varied, the best available, and strongly enhances audience understanding (4 of 4) ❑ Questions #1 is answered correctly and answer is supported with volume data to explain why ❑ Questions #2 is answered correctly connecting the graph to the correct gas law and answer is supported with data to explain why the graph shows the relationship stated ❑ Questions #3 is answered correctly connecting the graph to the correct gas law and answer is supported with data to explain why the graph shows the relationship stated ❑ Questions #4 is answered correctly and answer is supported with logical connections to the kinetic molecular theory to explain why	Support is accurate and sufficiently detailed—all basics evident (3 of 4)	Support is insufficient, inaccurate, or vague in places—enough to confuse audience somewhat (2 of 4)	Support is missing, inaccurate, or vague overall (1 of 4)	No work shown for this section

Overall Evidence Report Formatting

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Technology Applications	1c	½	Technology used is best available and appropriate for the required research, data representation, interpretation, and communication of results. (4 of 4) ❑ Entire Lab Report is computer generated ❑ Lab Report is in an Outline Format ❑ The use of personal pronouns is non-evident ❑ Lab Report includes all sections required in the Lab Report Style Guide as required by the rubric	Technology was used for the required research, data representation, interpretation, and communication of results. (3 of 4)	Technology used was insufficient for the required research, data representation, interpretation, and communication of results. (2 of 4)	Evidence of Technology use is missing and/or insufficient (1 of 4)	No work shown for this section

CONTENT RECALL

Application	#	wgt	Exemplary (10)	At Standard (8)	In Progress (7)	Still Emerging (6)	No Evaluation (0)
Content Recall	1f	½	Recalls virtually all essential terms and factual information ❑ 0 Content Questions were asked to the instructor for the duration of this performance assessment	Recalls most essential terms and factual information ❑ 1 Content Question was asked to the instructor for the duration of this performance assessment	Recalls a minimum of essential terms and factual information ❑ 2 Content Questions were asked to the instructor for the duration of this performance assessment	Recalls virtually no essential terms and factual information ❑ 3 or more Content Questions were asked to the instructor for the duration of this performance assessment	No work shown for this section

Some things I think I did well on this assessment are:

Some things I still have questions about performance assessments, lab reports, this class, etc. are:
If I graded myself on this, my score would be a _____/120, then divide that by 2 to get score out of 60 because each section is weighted by ½.