

Lab Report Rubric for Forensic Science

ALL VIRTUAL labs require the following information be typed and submitted with the following information. Virtual labs are those labs that only require a computer to complete.

"HANDS ON" labs require the information be presented in one of 2 ways: typed or by *video demonstration. Video presentations should demonstrate and discuss all of the same information below including any analysis questions that need to be answered. Data should be discussed as it is collected. No graphs are required for the video. Points for format will given for clear audio and visual detail.

	Characteristics of Science	Point Maximum	Student Score
Title			
Purpose/ Hypotheses	<ul style="list-style-type: none"> • States the purpose of the lab. • Suggest reasonable hypotheses for identified problems. 	2	
Procedure	<ul style="list-style-type: none"> • Develop procedures for solving scientific problems. • Follow correct procedures for use of scientific apparatus. • Demonstrate appropriate technique in all laboratory situations. • Use technology to develop, test, and revise experimental or mathematical models. 	4	
Data	<ul style="list-style-type: none"> • Use technology to produce tables and graphs. • Express appropriate numbers of significant figures for calculated data, using appropriate units. • Develop and use systematic procedures for recording and organizing information. • Collect, organize and record appropriate data. 	4	
Calculations	<ul style="list-style-type: none"> • Solve scientific problems by substituting quantitative values, using simple algebraic formulas as appropriate. 	3	
Graphs	<ul style="list-style-type: none"> • Graphically compare and analyze data points and/or summary statistics. 	1	
Results	<ul style="list-style-type: none"> • Trace the source on any large disparity between estimated and calculated answers to problems. • Consider possible effects of measurement errors on calculations. • Recognize the relationship between accuracy and precision. 	3	
Conclusion	<ul style="list-style-type: none"> • Develop reasonable conclusions based on data collected. • Evaluate whether conclusions are reasonable by reviewing the process and checking against other available information. • Recognize that different explanations often can be given for the same evidence. 	3	
Questions	<ul style="list-style-type: none"> • Use data as evidence to support scientific arguments and claims in written or oral presentations. 	6	
Format	<ul style="list-style-type: none"> • Writes clear, coherent laboratory reports related to scientific investigations. • Writes clear, coherent accounts of current scientific issues, including possible alternative interpretations of the data. 	4	
Total	Note: Student score maximum is 30 points. If a section is not required for a particular lab, the maximum possible score will be reduced.	30	