Lab Notebook Scoring Rubric for Nucleic Acids Biochemistry Lab

Date:	Evaluator:								
Student:									
Objective	Novice		Apprentice			Exe	Exemplary		
Organization: organize lab notes effectively		Pages not numbered or dated		Most pages are numbered and dated			All pages numbered and every section is dated		
		No Titles or Headings		Titles and clearly ma experimer	Headings are rked in most ats		Each experiment has a Title, Goal, Method, Result, and Conclusion		
		Table of contents is missing		Table of contents is mostly up-to-date and complete			Table of contents lists Date, Experiment Title, and Page numbers for each experiment		
Content: Describe materials and methods used and document results		Methods are incompletely described		Methods a described experimer			One could repeat the experiment from the Methods described		
		Results are not included		Most Figu included	res and Tables are		All Figures and Tables are included accompanied by titles and legends		
		Observations are not recorded		Observations are noted			Observations are carefully recorded		
Analysis: Describe data analysis		Data analysis is not described or included			alyzed, but the ised may not be ibed		Data analysis is complete with sample calculations written out in full		
		No error analysis		Error anal	ysis is qualitative		Final results are accompanied by error estimates		
Interpretation Reach a conclusion		Conclusions are not documented		Immediate thoughts are recorded for most experiments			Results are interpreted in the context of the hypothesis being tested		

Lab Report Scoring Rubric for Nucleic Acids Biochemistry Lab

Date:				Experiment:				
Team:					Evaluator:			
Objective	Needs improvement		Satisfactory				Excellent	
Writing:		Poor spelling		Most word	ds are spelled correctly			Text is error-free
Demonstrate effective technical writing		Tense is inconsistent		Tense is r	mostly consistent			Observations and experimental sections are related in the past tense; conclusions are related in the present tense
		Voice jumps between first, second, and third person		Voice is m	nostly consistent			First person pronouns are used only for special emphasis
		Text is difficult to read		Writing is concise	mostly clear and			Text is clear, concise, and easy to read
Introduction: Identify the testable hypotheses		Hypothesis is missing from the introduction or an untestable/irrelavant hypothesis is misidentified		A testable	hypothesis is ident	ified		Testable hypothes(es) are stated in clear and compelling text
Experiment: Describe materials and methods used and document results		Methods are incompletely described or too much detail is included			ness and efficiency to some degree in t section			Method description achieves an appropriate balance between completeness and efficiency
		Results are not included or Figures and Tables are confusing	_	Figures ar effective	nd Tables are clear	and	_	Figures and Tables are effective and accompanied by titles and legends
Analysis:		Data analysis is not		Data is an	alyzed, but the			Data analysis is
Describe data analysis		described or included			used may not be ful	ly		complete and could be reproduced by someone

				familiar with the experiment
	No error analysis or an inappropriate emphasis on error analysis		Qualitative error analysis is included where appropriate	Final results are accompanied by error estimates where appropriate
Discussion Interpret the results and reach a conclusion	Conclusions are missing or may be stated without any supportive arguments	_	A conclusion is reached but the reader is may not be completely persuaded	Results are interpreted in the context of the hypothesis being tested and a persuasive conclusion is achieved