

Lab 1.4 Photosynthesis Grading Rubric

	Poor (1 pts)	Satisfactory (5 pts)	Good (10 pts)	Score
Research	Explanation of light dependent reaction lacking or very little information present.	Offers explanation of the reaction, some parts vague or incorrect.	Offers good explanation of the light dependent reaction, includes how light is used to produce ATP and NADPH.	
Hypothesis	Hypothesis missing or does not relate to the problem	Hypothesis unclear or does not answer experimental question fully	Hypothesis based on research, proposes a clear and concise explanation for the problem or question	
Prediction	Prediction missing or does not relate to the hypothesis	Prediction: unclear or does not fully provide a prediction of what will happen when the hypothesis is tested.	Prediction clearly provides a predicted outcome that is expected to happen when the hypothesis is tested.	
Procedure	Very little (unclear) or no explanation on how simulation will be run in order to collect sufficient data.	Unclear or partial explanation/steps on how simulation will be run in order to collect sufficient data	Fully explains (very clear) how light reaction simulation will be run in order to collect accurate and sufficient data.	
Data	Variables not separated, data disorganized, trends not apparent.	Organized, though trends are not obvious from the layout. Hard to read, taking some time to figure out.	Well organized into tables, variables separated, data clearly shows trends	
	Not enough data was taken to test variables	A fair amount of data was taken, enough to show trends	Enough data was taken to clearly show trends	
	Graphs poorly labeled, difficult to read.	Graphs missing some labels or incorrectly set up	Graphs all labeled correctly, easy to read	
Data analysis	Does not support or reject hypothesis. Specific data is not used or referred to. Not clear or concise.	Supports or rejects hypothesis. Partially incorrect analysis of data or does not refer to specific data. Somewhat clear and concise.	Indicates if hypothesis was supported or rejected. Accurately refers to specific data to support or reject hypothesis. Clear and concise.	
Conclusion	Does not propose a possible explanation to the question. Is not based on experiment. No errors or other questions discussed.	Partial or erroneous possible explanation is proposed for question. Misinterpreted results from experiment are used for bases of explanation. Errors discussed.	Proposes possible explanation to question. Based on what was found in experiment. Any Errors and other questions that came about are discussed. Clear and concise.	
Format	Must be typed and follow numbered format indicated in directions in order to be scored.			
			Total possible: 90	_____