

Photosynthesis Lab Rubric

	Points Possible	Points Earned
Leaf Disk Lab		
The following must be written in your lab notebook at the start of the lab. These will be checked and immediately graded		
- Question: this is decided the day before the lab by your group. How does ____ affect the rate of photosynthesis of spinach leaves?	4	
- Hypothesis: If, then statement	4	
- Variables: independent, dependent, control, and constants	8	
- Data Chart (max 25 minutes)	8	
After conducting the lab, complete the following on a separate sheet of paper to be turned in by each person		
- Complete a graph comparing the ET ₅₀ of each your various experimental groups and control	10	
- Conclusion paragraph: Provide an explanation for whether your hypothesis is correct or not. You should discuss how your variable is impacting the rate of photosynthesis and what part of photosynthesis is impacted. (You may have to do some additional research to find out how your variable should have impacted photosynthesis.)	15	
Virtual Photosynthesis Lab		
Plant Pigment Chromatography		
- Chart and distance solvent front moved	5	
- R _f values	4	
- Discussion Questions <ul style="list-style-type: none"> o Q1 (2pts), Q2 (2pts), Q3 (2pts) 	6	
Photosynthesis		
- Draw set up for the 3 experimental groups and control group	3	
- Data chart with sample lab data	3	
- Graph of sample lab data	10	
- Discussion Questions: <ul style="list-style-type: none"> o Q1 (2pts), Q2 (2pts), Q3 (2pts), Q4 (2pts), Q5 (2pts), Q6 (2pts), Q7 (3pts), Q8 (5pts) 	20	
Total	100	