Photosynthesis (Floating Disk Lab) - AP BIOLOGY

REPORT ITEM	POSSIBLE POINTS	EARNED POINTS/comments
Title (IV's Effect on DV or How DV is affected by IV)	5	
a. Background information- includes 2 sources properly cited (at least two of your sources must be scientific peer reviewed articles) - What is photosynthesis? - How does photosynthesis fit in biology? What is their importance to living things - How is photosynthesis affected by environmental conditions? - What condition are you going to explore in your lab? - What other published experiments have explored similar conditions (peer reviewed scientific journal articles) needs to add value to the background (not just cover easy knowledge we already have	5	
a.Purpose of the experiment	2	
b. Hypothesis (if, then, because) - include a Null Hypothesis (H_0)	3	
Materials and Procedures	(10)	
a.Materials listed (bulleted list)	2	
b. Procedures stated (numbered steps in sentence form)	3	
c. Statistical Methods explained (this should be what tests you are going to run and what information can be gained using this test. No numbers or math should be in this section, just a description of the stat tests conducted) you should be using the ET50	5	
Results/ Data Collection/Analysis (complete sentences and paragraph form)	(40)	
a.Dependent Variable Identified correctly	2	
b. Independent Variable Identified correctly	2	
c. confounding variables (constants)	2	
d. replication/sample size	4	
e. controls (baseline, positive, negative? Which was used?)	2	
f. Organize Data- Data recorded in tables (include averages)	2	
f. Units Labeled and titled appropriately	2	
f. SEM is included on the table	2	
f. Tables have a caption below (ex. Table 1.1 with explanation)	4	
f. graph is presented neatly and accurately	5	
f. graph has a caption below and scientific title (ex. Figure 1.1 with explanation)	5	
g. Written summary of data (data analysis- data points are discussed and specific numbers are listed)	5	
g. Discussion of statistical method results (chi square test, t test, etc.) include your math in the appendix and cite it in this portion of your lab report	3	

Conclusion (complete sentences and paragraph form)	(30)	
Summarizes results	10	
Errors identified AND how they would be fixed!!!	5	
Conclusion stated	8	
implications- how can the information from this lab be applied to real world examples	2	
Improvements recommended (this is not how to fix errors- this is how could you extend the experiment- ex. Test more concentrations)	5	
Literature Citation (my preference is APA format) - Citation information correct	3	
No Personal Pronouns	2	
Comments		
TOTAL POINTS	(100)	