Biology	Name:	
Analysis Worksheet	Period:	Date:
Title of the Lab:		
Purpose of your experiment:		
What Is Your <u>Claim?</u> :		

Evidence

Provide the evidence	Evaluate the evidence		Rate the worth of the evidence
(Data: diff. btwn. data set averages;	For Data: was value greater	What does the data show?	Strong /
trials; St.Dv.; Observations; other?)	than/ equal to/ less than expected; <u>by how much?</u>	How does it support or refute the claim?	average / weak
Leaf area (top verses bottom)			
Leaf thickness (top verses bottom)			
Stomata density (top <u>v</u> bottom)			
Other observed differences			

Reasoning	
Does Your Evidence Conform to What Science Says You Should Expect?	How Does The Scientific Principle Connect Your Evidence to Your
Elaborate!	Claim?

Sources of Error

Error Description	What Is Its Effect On Your Data? Did It Cause	Do You Think This Error Had a Large/ Moderate/			
	It To Increase/ Decrease/ Vary Up or Down/	Small Effect on Your Results? (Explain; try to			
	Be Totally Incorrect?	provide a numerical estimate)			
Experimental Errors (occurred because of your design)					
Human Errors (things that you KNOW you did wrong when conducting the lab)					

Draw a Conclusion

If you have correctly completed this worksheet you should now be able to use logically consistent reasoning, with appropriate scientific support, to draw a conclusion about your results and your claim.

Below are some possible conclusions. Decide which one best fits your experiment and *elaborate on it* in the space provided.

My results agree with the accepted scientific understandings and my errors (design or human) did not significantly affect my results. Therefore I can conclude that

My results agree with the accepted scientific understandings but my errors (design or human) were so significant that I cannot trust them. Therefore I can conclude that

My results do not agree with the accepted scientific understandings but I can explain why with the errors (design or human) in my lab. Therefore I can conclude that