

Name: \_\_\_\_\_  
Mr. Willis  
Biology: \_\_\_\_\_  
Date: \_\_\_\_\_

Unit II  
Planting Sciences Experiment  
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Check out <http://www.nwr1biology.com>

II

## Final Lab Report

Use this format to prepare your final report for the Planting Sciences Project. Your report should be typewritten but at the very least must be neatly written. Each segment must be completed using full sentences. Spelling and grammar will be considered in your final grade. Consult the rubric on page 2 for information of how the grade will be determined. Each person must complete their own report. Do not copy from your lab partners. This report is due on Friday, November 5<sup>th</sup>.

### Statement of the Problem:

- \* *What question(s) are you trying to answer?*
- \* *Include any preliminary observations or background information about the subject*

### Hypothesis:

- \* *Write a possible solution for the problem.*
- \* *Make sure this possible solution is a complete sentence using the "if... then..." format.*
- \* *Make sure the statement is testable.*

### Materials:

- \* *Make a list of ALL items used in the lab.*

### Procedure:

- \* *Write a paragraph (complete sentences) which explains what you did in the lab.*
- \* *Your procedure should be written so that anyone else could repeat the experiment.*

### Results (Data):

- \* *This section should include any data tables, observations, or additional notes you make during the lab.*
- \* *You may attach a separate sheet(s) if necessary.*
- \* *All tables, graphs and charts should be labeled appropriately*

### Conclusions:

- \* *Accept or reject your hypothesis.*
- \* *EXPLAIN why you accepted or rejected your hypothesis using data from the lab.*
- \* *Include a summary of the data - averages, highest, lowest, etc to help the reader understand your results*
- \* *List one thing you learned and describe how it applies to a real-life situation.*
- \* *Discuss possible errors that could have occurred in the collection of the data (experimental errors)*

## Lab Report Rubric

	(4 pts)	(3 pts)	(2 pts)	(1 pt)	(0)
Introduction	1. Includes the question to be answered by the lab 2. states hypothesis that is based on research and/or sound reasoning 3. title is relevant. 4. Hypothesis (prediction) is testable.	One of the "excellent" conditions is not met	Two of the "excellent" conditions is not met	Three of the "excellent" conditions is not met	
Methods			A description or step-by-step list of how the experiment was performed	Description unclear, couldn't be repeated	
Results (data)	Results and data are clearly recorded, organized so it is easy for the reader to see trends. All appropriate labels are included	Results are clear and labeled, trends are not obvious,	Results are unclear, missing labels, trends are not obvious at all	Results are present, though too disorganized or poorly recorded to make sense of	
Analysis	The data and observations are analyzed accurately, trends are noted, enough data was taken to establish conclusion	Analysis somewhat lacking in insight, enough data, though additional data would be more powerful	Analysis lacking in insight, not enough data was gathered to establish trends, OR analysis does not follow data	Analysis poor, not enough data, inaccurate analysis	
Conclusions	1. Summarizes the essential data used to draw conclusions 2. Conclusions follow data (not wild guesses or leaps of logic), 3. Discusses applications of experiment ("real world" connections) 4. Hypothesis is rejected or accepted based on the data.	One of the "excellent" conditions is not met	Two of the "excellent" conditions is not met	Three of the "excellent" conditions is not met	
Format			Neat, organized with headings, few spelling/grammar errors	Somewhat lacking in organization, multiple spelling/grammar errors, not neat	