Grading Rubric: Think Green

ASSIGNMENT	UNSATIFACTORY (1 POINT)	SATISFACTORY (2 POINTS)	EXCELLENT (3 POINTS)
#1: Define Key Terms	-Lab notebook does not include definitions for all 18 terms included in the assignment -Many of the completed definitions include incorrect information and/or lack enough detail to adequately explain the concept	Lab notebook includes: -Entries for all 18 terms included in the assignment -Most definitions include accurate information with enough detail to explain basic concepts	Lab notebook includes: -Well-written definitions given for all 18 terms included in the assignment. -All definitions include accurate information with adequate detail to thoroughly explain concepts
#2: Experimental Design	-Lab notebook does not include one or more of the tasks for the assignment -Student is unable to correctly identify the variable and control for the assigned treatment -Hypotheses are poorly written and/or do not include an explanation of student reasoning	Lab notebook includes: -Entries for all four tasks included in the assignment -Correct identification of the variable and control for the assigned treatment -Hypotheses accompanied by a basic explanation of student reasoning	Lab notebook includes: -Detailed entries for all four tasks included in the assignment -Correct identification of the variable and control for the assigned treatment -Well thought-out hypotheses accompanied by detailed explanations of student reasoning indicating understanding of the potential effect of the assigned experimental treatment
#3: Weekly Observations & Measurements	-Lab notebook does not include one or more of the outlined tasks for the assignment -Completed tasks include minimal detail or incorrect information	Lab notebook includes: -Weekly entries for all seven tasks outlined for the assignment -Correct identification of the age, stage, and time to bolting for all plants -Simple drawings included for all strains in treatment -Drawings include some notes on plant condition and at least some comparisons between control and treatment and/or between different strains -Measurements for rosette diameter and inflorescence height are noted at the appropriate developmental stage and are completed on a weekly basis	Lab notebook includes: -Detailed weekly entries for all seven tasks outlined for the assignment. -Correct identification of the age, stage, and time to bolting for all plants -Detailed drawings that include descriptive notes on plant condition for all strains included in the treatment -Thoughtful comparison of the condition of the different strains, as well as between the control and treatment plants -Measurements for rosette diameter and inflorescence height are noted at the appropriate developmental stage and are completed on a weekly basis -Measurements are consistently written with the measurement unit included

ASSIGNMENT	UNSATIFACTORY (1 POINT)	SATISFACTORY (2 POINTS)	EXCELLENT (3 POINTS)
#4: Measure Aboveground Fresh Weight	Lab notebook does not include one of the following: -Weight of the empty bag or envelop -Weight of the bag or envelop with the plant material -Correct calculation of the weight of the plant material	Lab notebook includes: -Weight of the empty bag or envelop -Weight of the bag or envelop with the plant material -Correct calculation of the weight of the plant material	n/a
#5: Display & Interpret Data	-Lab notebook does not include one or more of the outlined tasks for the assignment -Completed tasks include minimal detail or incorrect information	Lab notebook includes: -Entries for six written tasks outlined in the assignment -Basic data visualizations -A simple summary of the effect of the treatment on each seed strain -Comparison of the results with original hypotheses -Predictions about strain survival indicate a basic understanding results from each group treatment -Simple research question and hypothesis for new stress condition -Selection of an individual strain and stressor for future study with basic explanation about choice -Classroom presentation includes enough information to adequately explain the results of the experimental treatment	Lab notebook includes: -Detailed entries for six written tasks outlined in the assignment -Data visualizations include titles, legends and labels -Detailed summary of the effect of the treatment on each strain -Thoughtful comparison of the results with the original hypotheses and an explanation of any discrepancies -Predictions about strain survival include a thorough explanation of reasoning and indicate an understanding of the results from each group treatment -Well-stated research question and logical hypothesis for new stress condition -Selection of an individual strain and stressor for future study with a detailed explanation of reasoning -Well organized classroom presentation that thoroughly explained the results of the experimental treatment