# Grading Rubric: Life in Bloom Advanced

| ASSIGNMENT | UNSATIFACTORY (1 POINT) | SATISFACTORY (2 POINTS) | EXCELLENT (3 POINTS) |
|---|---|---|---|
| **#1: Form hypotheses** | -Lab notebook does not include one or more of the outlined activities for this assignment<br>-Completed activities include minimal detail or incorrect information | Lab notebook includes:<br>- Accurate definitions given for most of the listed terms.<br>- Hypotheses make sense and demonstrate that the student reviewed the background material. | Lab notebook includes:<br>-Accurate and detailed definitions given for all terms<br>- Well-developed hypotheses that accurately reflect the information presented in the background information.<br>-Detailed explanation of the student's reasoning |
| **#2: Collect data** | -Some data and/or information is missing from the data sheet | -Data sheet has entries for each day in the observation period. Group information is complete. | n/a |
| **#3: Data analysis** | -Lab notebook does not include one or more of the outlined activities for this assignment<br>-Completed activities include minimal detail or incorrect information | Lab notebook/data sheet includes:<br>-Data visualization that accurately reflects group data but is missing one or both of the following: figure legend or title.<br>-Basic explanation of the impact of each mutation on germination.<br>-Correct determination of whether the data support the hypotheses with a basic explanation of reasoning.<br>-Basic comparison of the impact of light and dark growing conditions on each genotype.<br>-Acknowledgement that class results were compared to example data. Any differences in results are explained. | Lab notebook/data sheet includes:<br>-Group data are in line with expected results.<br>-Data visualization accurately reflects group data and includes a figure legend and title.<br>-Accurate and well thought out explanations of the impact of each mutation on germination.<br>-Correct determination of whether the data support the hypotheses with a detailed explanation of reasoning.<br>-Thorough comparison of the impact of light and dark growing conditions on each genotype.<br>-Acknowledgement that class results were compared to example data. Any differences in results are explained in detail. |