**INDEPENDENT PROJECT RUBRIC**

|  |  |  |
| --- | --- | --- |
| **Criteria** | **Comments** | **Points** |
| **ORGANIZATION**   * requested sections with appropriate titles * attention to language skills (grammar, punctuation, spelling) * clear and easy to read |  | 2 |
| **QUESTION**   * testable and specific |  | 1 |
| **HYPOTHESIS**   * includes a specific prediction |  | 1 |
| **INTRODUCTION**   * background information from many sources (*with in-text citations*) on the phenomenon investigated, including   + general information about the plant type, including ideal growing conditions   + the experimental variable as it relates to plant growth   + other similar experiments and their findings |  | 4 |
| **METHODS**   * procedures - including enough detail that someone could repeat the same experiment * the experimental design is clearly indicated including the subject(s), groups and variables * materials used are clearly listed |  | 3 |
| **RESULTS**   * concise paragraph that summarizes what happened (but does NOT attempt to explain why it happened) * data table that displays recorded (measured) data for all of the seeds in each group over time (every 2-3 days), and a summary statistic (average) for each group on each day that data was recorded * graph(s) that displays the summarized data (averages) for each group over time * photos that document the change(s) that occurred * tables, graphs and photos stand alone, with appropriate titles and labels (including metric units) |  | 6 |
| **INTERPRETATION**   * statement about whether results support, partially support or refute hypothesis * description of the trends evident in the graph(s) * a thorough explanation – WHY did the EV affect the DV(s) this way?   + supported by information from many sources (*with in-text citations*) * sources of error (uncertainty) * *see your instructor for advice ASAP if none of your seeds germinated* |  | 6 |
| **WORKS CITED**   * list of the sources used to provide background information in the *Introduction* and to help explain the results in the *Interpretation*   + reliable, scholarly sources   + appropriate citation style/format   + in-text citations correspond to the sources in this list   + information is not copied directly from the source - NO QUOTES |  | 2 |
| **TOTAL** |  | 25 |

Spring 2020