# AP Biology Mini Poster Grading Rubric Name \_\_\_\_\_\_\_\_\_\_\_\_\_

Here is how points will be assigned for labs written up using the given format.

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|  | ***Advanced:***  ***15 - 14 points*** | ***Proficient:***  ***13 - 12 points*** | ***Partially Proficient:***  ***11 - 9 points*** | ***Novice:***  ***8 - 0 points*** |
| ***Introduction***  ***\_\_\_\_\_\_\_ pts*** | ⇫ Introduction is thorough, connecting the material of the course to the activity of the lab (“Why are we doing this lab in this unit?”).  ⇫ 3 or more properly formatted citations are provided.  ⇫ How to maintain living specimens (if used) | ⇫ The introduction provides the reader with key terms.  ⇫ At least 2, properly formatted parenthetical citations from 2 different sources are provided.  ⇫ The underlying biological concept of the lab mentioned and is clearly explained.  ⇫ Introduction and conclusion sentence is included  ⇫ Scientific name of the organism(s) is/are used | • The Introduction deviates from the “Proficient” criteria in two aspects. | • Introduction deviates from “Proficient” criteria in three or more aspects. |
| ***Research Question/ Hypothesis***  ***\_\_\_\_\_\_\_ pts*** | ⇫ Rationale is provided for research question by referencing background information (at least one properly formatted citation is required).  ⇫ Use research (at least one properly formatted citation) to justify use of chosen independent variable. | ⇫ Research Question is stated  ⇫ Testable Hypothesis is correctly stated and is justified.  ⇫ Independent and dependent variables are explicitly identified within hypothesis. | • The Hypothesis deviates from the “Proficient” criteria in two aspects. | • Hypothesis deviates from “Proficient” criteria in three or more aspects OR  • Hypothesis is not testable |
| ***Materials &***  ***Procedure***  ***\_\_\_\_\_\_\_ pts*** | **Materials:**  ⇫ Materials are complete and written in paragraph form.  ⇫ Concentration of chemical reagents used (when known) are provided  ⇫ Volumes of apparatus are provided  **Procedure:**  ⇫ Procedure is clearly written in paragraph form to be easily followed by a peer.  ⇫ Procedure is concisely written using third person past tense.  ⇫ Concentration of chemical reagents used (when known) are provided  ⇫ Constants (3 or more) are clearly identified.  ⇫ Includes multiple trials when applicable | **Materials:**  ⇫ Materials are complete (according to lab report guidelines) and written in list form.  ⇫ Amount of substances used, scientific names of organisms are named, appropriate names of lab equipment, specific measurements required, etc. are provided.  **Procedure:**  ⇫ Procedure is clearly written in list form to be easily followed by a peer.  ⇫ Amount of substances used, scientific names of organisms are named, appropriate names of lab equipment, specific measurements required, etc. are provided.  ⇫ Constants (generally at least 2) are clearly identified.  ⇫ Control group (generally at least one) is identified.  ⇫ Experimental group(s) is/are identified.  ⇫ Labeled diagram or labeled photo is provided.  ⇫ The procedure allows for the collection of “sufficient relevant data”  ⇫ Procedure is safe and ethical. | • Materials list has 2 or more errors or omissions in specific amounts, scientific names of organisms, names of lab equipment, specific measurements required, etc.  • Procedure deviates from “Proficient” criteria in three aspects. | • Materials are incomplete  **Note:**  No materials mentioned will result in less than 8 points.  • Procedure deviates from “Proficient” criteria in four or more aspects. |
| ***Results***  ***\_\_\_\_\_\_\_ pts*** | ⇫ Report includes written description of both qualitative and quantitative results.  ⇫ All elements (tables, graphs, etc.) in the data section are explained with two or more descriptive sentence. (Caption) | ⇫ Report includes written description of results.  ⇫ Report includes data table and graph.  ⇫ All tables, graphs, drawings, and calculations adhere to lab report guidelines (title correctly written, labels on axis, etc.)  ⇫ Relevant analysis of data is demonstrated.  ⇫ All elements (tables, graphs, etc.) in the data section are explained with at least one descriptive sentence. (Caption) | • Results section deviates from “Proficient” criteria in two aspects. | • Results section deviates from “Proficient” criteria in three or more aspects.  OR  • Report does not include at least one graph and one data table |
| ***Discussion***  ***\_\_\_\_\_\_\_ pts*** | **Conclusions:**  ⇫ Discussion of limitations of the experiment is provided.  ⇫ Discussion of unexpected results is provided (when applicable).  ⇫ Applicability of the conclusions of this experiment to more than two situations is provided.  **Experimental Evaluation:**  ⇫ Suggestions for future avenues of research are provided.  ⇫ Depth of discussion goes beyond requirements listed in “Proficient” | **Conclusions:**  ⇫ Accept or reject hypothesis using data to support your explanation.  ⇫ Clear connection is made between hypothesis and data collected.  ⇫ Clear connection is made between the lab activity and the understandings of the unit/course.  ⇫ Applicability of the conclusions of this experiment to other situations is provided.  **Experimental Evaluation:**  ⇫ Statement of confidence in the experiment is provided and justified.  ⇫ Identification and discussion of sources of error is provided.  ⇫ Recommendations for refining the experiment are provided. | • Conclusion deviates from “Proficient” criteria in two aspects  • Experimental evaluation deviates from “Proficient” criteria in two aspects | • Conclusion deviates from “Proficient” criteria in three or more aspects  OR  • Experimental evaluation deviates from “Proficient” criteria in three or more aspects |
| ***Aesthetics:***  ***\_\_\_\_\_\_\_ pts*** | ⇫ Report demonstrates no errors in spelling, grammar, and consistent design considerations (formatting, spacing, etc.)  ⇫ Scientific names for organisms are used in title when applicable.  ⇫ 3 or more references from different sources are used. | ⇫ Report demonstrates proper spelling, grammar, and consistent design considerations (formatting, spacing, etc.)  ⇫ Title, headings and page numbers are included  ⇫ Descriptive title includes independent and dependent variables, and organisms (when applicable).  ⇫ Report adheres to APA citation conventions in-text and in the reference section (bibliography/works cited).  ⇫ Two references from two different sources are used. | • Report demonstrates 2-4 notable issues with regard to proper spelling, grammar, and consistent design considerations (formatting, spacing, etc.) | • Report demonstrates more than 5 notable issues with regard to spelling, grammar, and design considerations (formatting, spacing, etc.).  OR  • Report does not adhere to APA citation conventions in-text and in the reference section. |
| **TOTAL** | **Advanced**  **90 - 84 pts** | **Proficient**  **83 - 72 pts** | **Partially Proficient**  **71 - 54 pts** | **Novice**  **53 pts and below** |

**Student Self-Evaluation: \_\_\_\_\_\_\_ pts Teacher Evaluation: \_\_\_\_\_\_\_ pts**

**Teacher Comments:**