# 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 aspectsOR• 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:**