**Proposal Paper Feedback & Grade Summary**

Author of Paper: \_\_\_\_\_\_ Lab Section: \_\_\_ Title of Paper:\_\_\_\_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**\_\_\_\_

| **Key Section Components** | **Big Picture Question** | **Rubric Rating** | **Comments** |
| --- | --- | --- | --- |
| **Title** is concise, conveys main point of experiment, and includes these key components: study system, variables, expected result, & direction |  |  |  |
| **Introduction**  Clearly, concisely, & logically presents all key components: relevant & correctly cited background information, question, biological rationale (including biological assumptions about how the system works and knowledge gap research addresses), hypothesis, approach. (There may be a few minor issues with organization/clarity.) | ***Did Intro convey why the experiment will be performed and what it is designed to test?***  **Y / N** |  |  |
| **Methods & Materials** Concisely, clearly, & chronologically describes procedure to be used such that knowledgeable reader could replicate experiment and understand expected results. Methods used are appropriate for study. Clearly defines controls and how they will inform the experiment. Briefly describes mathematical manipulations or statistical analyses to be used. | ***Did the Methods clearly describe how the hypothesis will be tested?***  **Y / N** |  |  |
| **Expected & Alternative Results** Contains a concise, well-organized narrative text & tables/figures that highlight anticipated key trends/ patterns/output from statistical tests without biological interpretation. Figures should present data that would support hypothesis as well as present alternative results. Tables & figures have appropriate legends/ labels & can stand on their own. | ***BIG PICTURE: Did the Results clearly & effectively display expected data that are relevant?***  ***Y/N*** |  |  |
| **Implications** With a few minor exceptions, clearly, concisely, & logically presents all key components: describes relevance of predicted trend as it relates to knowledge gap and rationale, explains assumptions made, evaluates confidence in experimental design, discusses alternative results in light of incomplete biological rationale or flawed biological assumptions, and discusses ramifications of experiment. | ***BIG PICTURE*** ***Did the Implications present explanations of expected & alternative results that made sense based on the ‘dummy’ data presented?***  **Y/N** |  |  |
| **References** within body of paper are cited appropriately; references in final citation list are formatted appropriately and listed alphabetically by author using WM guidelines. |  |  |  |
| **Overall grammar, organization, wording** Excellent organization and paper flow, appropriate word choice, few to no grammatical errors, consistently uses future tense |  |  |  |

**Overall grade \_\_\_ Summary comments:**