

**Project 2 IPR Rubric**

<b>Appendix A: Scatter Plots with Fitted Models</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Two scatter plots with models overlaid, with no Excel trendlines used on the graph, a title, and axis labels. Includes figure labels and caption that explains what is plotted and the key takeaway.	Two scatter plots provided, but includes Excel trendlines, labeling is unclear, or fails to include captions.	One or both scatter plots are missing or fails to plot the models on the scatter plots.	
14-15 Pts	11-13 Pts	0-10 Pts	
<b>Appendix A: Numerical Models</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Provides both models using Equation Editor with parameter values input.	Provides both models, but only one is accurate or minor errors in both.	Fails to provide one or both models.	
5 Pts	4 Pts	0-3 Pts	
<b>Appendix A: Supporting Table and SSE Values</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Provides table of first 10 data points, the associated predicted value for each x-value, the error (residual) between the prediction and raw data value, and the squared error for each. Then, provides the full SSE value calculated for the model. This should be done for both models. Table needs to be labeled with a caption that explains what the table shows. Table is not a screenshot from Excel.	SSEs reported, but there are calculation errors, the tables are not clearly displayed, or are missing captions.	Tables are missing, fails to calculate SSE for both models, or missing information from the tables.	
14-15 Pts	11-13 Pts	0-10 Pts	
<b>Appendix A: Prediction</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Prediction made correctly for selected model.	Prediction attempted but errors made in the calculations or unclear result.	No prediction, fails to use one of their provided models, or a major error in their calculations.	
9-10 Pts	7-8 Pts	0-6 Pts	
<b>Appendix B: Given &amp; Find</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Clearly identifies dataset, provides information on the dataset, identifies variables to investigate, and provides clear predictive question.	Identifies some but not all elements.	Missing or incomplete.	
9-10 Pts	7-8 Pts	0-6 Pts	
<b>Appendix B: Define Variables</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Selects and defines variables using words in the context of the problem for both models.	Variables identified, but definitions lack sufficient detail.	Variables missing or definitions do not make sense in the context of the problem.	
9-10 Pts	7-8 Pts	0-6 Pts	
<b>Appendix B: Define Parameters</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Correctly identifies model parameters and defines them using words as they apply to the context of the problem for both models.	Parameters identified, but definitions lack sufficient detail or assigns numbers to the parameters instead of using words.	Fails to define parameters in the context of the problem.	
5 Pts	4 Pts	0-3 Pts	
<b>Appendix B: Assumptions</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Explicitly states and justifies all assumptions necessary to set up and solve. Full points require assumptions beyond the two minimums: variable selection (justification for variable selection is an external resource and/or mathematical evidence) and model selection.	Provides assumptions, but fails to provide compelling justification.	Fails to provide assumptions, only provides the minimum assumptions, or assumptions are not necessary to the problem.	
9-10 Pts	7-8 Pts	0-6 Pts	
<b>Appendix B: Final Model</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
Clearly selects two different models and models follow the assumptions, variable, and parameter definitions made throughout.	Clearly selects two different models, but inconsistencies in work and models provided.	Applies numbers to their models (not in general form), fails to provide two models, errors in models, or fails to provide any model.	
5 Pts	4 Pts	3 Pts	
<b>Works Cited and Acknowledgment of Assistance</b>			
<b>Dominates</b>	<b>Proficient</b>	<b>Marginal</b>	<b>Comments</b>
All assistance and external sources cited IAW DAAW (2025).	Acknowledgment and works cited exist, but with formatting errors.	Works cited and/or acknowledgment are incomplete.	
5 Pts	4 Pts	3 Pts	