**Marathon Data Regression Poster Rubric**

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| CATEGORY | **4** | **3** | **2** | **1** |
| **Plot Data** | Labels for entire graph, well-chosen scale is labeled on x and y axis. Accurately plotted. | Entire graph is not labeled. Scale is labeled. Mostly accurately plotted. | Poor or incomplete labeling of graph or scale. Mostly accurately plotted. | Graph is poor form with bad scale, lack of labels, incorrect plotting. |
| **Describes Plot/Relationship** | Direction, Form and Strength are discussed with complete sentences. Outliers and influential points are addressed. | Direction, Form and Strength are discussed vaguely in non-statistical language. Outliers and influential points are not addressed. | Direction, Form and Strength are partially addressed or are partially correct. No news on outliers or influential points. | Direction, Form and Strength are not discussed. No news on outliers or influential points. |
| **Numerical Summary** | 2-Variable statistics displayed and labeled. ,, , , and r. | 2-Variable statistics displayed but unlabeled. Evidence that student understands how to use the values. | 2-Variable statistics displayed but unlabeled. No evidence student knows how to use the values. | 2-Variable statistics not displayed. |
| **Mathematical Model/Regression Line** | Model (LSRL) is stated within a complete sentence. Any supporting calculations are shown, are correct and use a uniform number of decimal places. Interpretations of all numerical values are given. | Indiscriminate rounding, but essentially correct calculations. No statement or equation, just indications of slope and y-intercept values. | Poor and indiscriminate choices in rounding. No statement of equation. Unlabeled values. | No equation or statement. Incorrect or unlabeled values. Mind reading is clearly expected. |
| **How well does it fit?** | are stated by value and by name. A statement about that value is correct. There is a residual plot with comment. | are stated by value. A statement about that value is essentially correct. There is a residual plot with comment. | are stated by value. Either of the following are incorrect or missing: a statement about the correlation corefficient and/or coefficient of determination or the residual plot. | are incorrect. The statement is incorrect or missing. There is no residual plot. |
| **Conclusion and Prediction** | Predictions are provided. Extrapolation is commented upon, if needed. A comment exists about the appropriateness of the model. | Predictions are provided but there is no comment exists about the appropriateness of the model. | Predictions are not provided and/or Concluding statement exists but is wrong or is wordy nonsense. | No/minimal predictions or concluding statement. |
| **Poster Quality** | Poster is well organized, neat, content is easily seen from a distance, and graphs have been printed. | Poster is mostly organized, neat, content is easily seen from a distance, and graphs have been printed. | Poster is somewhat organized, content can be somewhat seen from a distance, and graphs are poor quality | Poster is not organized, content cannot be easily seen/read from a distance, and/or graphs have/not been printed |