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| **DATA/RESULTS MST SCIENCE FAIR**  | **TOTAL \_\_\_\_\_/40pts** |
|  | **4** | **3** | **2** | **1** | **0** | **Multiplier** | **Points Earned** |
| **Data** | All experimental data isincluded and labeledwith units and documented with video.(See Below) |  | Some data omittedand unlabeled, or data collection video does not provide evidence of ownership. |  | No data isIncluded OR data collection video is not present. | 3 | \_\_/12 pts |
| **Visual Presentation** | Both a raw data table and at least one table for descriptive statistics must be present. All data tables are clearand coherent. Descriptive statistics must be visualized in one or more graphs when appropriate. Raw data is not graphed unless there is a legitimate reason. |  | Specific data tables are poorly formatted, unclear, or missing.Graphs are used ina way that obscuresdata. |  | No tables,graphs or visualdata displays provided.  | 3 | \_\_/12 |
| **Statistical Analysis**  | A statistical analysis of the data iscorrectly and appropriately included. This may include t-test, chi square, ANOVA, or other appropriate statistical tool. . |  | A statisticalanalysis of the datais included withmajor errors. |  | No statisticalanalysis (t-test,ANOVA, etc.) isincluded | 2 | \_\_\_/8 |
| **Written Description** | Each figure is accompanied by an explanation that points out trends in data as well as the main points of the statistical analysis that rationalizes the data. |  | One written datadescription missingand explanations do not sufficientlyExplain data.  |  | No writtendescriptions ofdata provided | 1 | \_\_\_/4 |
| **Formatting** | Paper is typed, double spaced, with 12 pt. Font, 1 inch margins and APAstyle in-text citations, written in the third person, in passive voice |  | Missing 3 or 4 of the characteristicsof a 4. |  | Missing all the characteristics of a 4. | 0.5 | \_\_\_/2 |
| **Spelling and Grammar**  | Paper written followingguidelines ofprofessional writing. | 2 spelling orgrammaticalerrors leftuncorrected. | 3 spelling orgrammatical errorsleft uncorrected. | 4 spelling orgrammaticalerrors leftuncorrected. | 5 or morespelling orgrammaticalerrors leftuncorrected. | 0.5 | \_\_\_/2 |

**DOCUMENTATION WITH VIDEO:**

This school year we will be requiring video evidence of your data collection. If you are using a technology based project, then this will be documented through a video screen sharing application. This MUST be provided. Detailed guidelines will be provided in video on the MST website.

**A LEVEL 4 STUDENT :**

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| **Data** | All experimental data is included and labeled with units documented with video. |
| **Visual Presentation** | Both a raw data table and at least one table for descriptive statistics must be present. All data tables are clear and coherent. Descriptive statistics must be visualized in one or more graphs when appropriate. Raw data is not graphed unless there is a legitimate reason. |
| **Statistical Analysis** | A statistical analysis of the data is correctly and appropriately included. This may include t-test, chi square, ANOVA, or other appropriate statistical tool. . |
| **Written Description** | Each figure is accompanied by an explanation that points out trends in data as well as the main points of the statistical analysis that rationalizes the data. |
| **Formatting** | Paper is typed, double spaced, with 12 pt. Font, 1 inch margins and APA style in-text citations, written in the third person, in passive voice |
| **Spelling/Grammar** | Paper written following guidelines of professional writing. |