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| **DATA/RESULTS MST SCIENCE FAIR** | | | | | | **TOTAL \_\_\_\_\_/40pts** | |
|  | **4** | **3** | **2** | **1** | **0** | **Multiplier** | **Points Earned** |
| **Data** | All experimental data is  included and labeled  with units and documented with video.  (See Below) |  | Some data omitted  and unlabeled, or data collection video does not provide evidence of ownership. |  | No data is  Included 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 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. |  | Specific data tables are poorly formatted, unclear, or missing.  Graphs are used in  a way that obscures  data. |  | No tables,  graphs or visual  data displays provided. | 3 | \_\_/12 |
| **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.  . |  | A statistical  analysis of the data  is included with  major errors. |  | No statistical  analysis (t-test,  ANOVA, etc.) is  included | 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 data  description missing  and explanations  do not sufficiently  Explain data. |  | No written  descriptions of  data provided | 1 | \_\_\_/4 |
| **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 |  | Missing 3 or 4 of the characteristics  of a 4. |  | Missing all the characteristics of a 4. | 0.5 | \_\_\_/2 |
| **Spelling and Grammar** | Paper written following  guidelines of  professional writing. | 2 spelling or  grammatical  errors left  uncorrected. | 3 spelling or  grammatical errors  left uncorrected. | 4 spelling or  grammatical  errors left  uncorrected. | 5 or more  spelling or  grammatical  errors left  uncorrected. | 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 :**

|  |  |
| --- | --- |
| **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. |