## Score Sheet

Your presentation should contain all the content on the score sheet and your presentation slides should be in the same order as the score sheet.

* + Title, Observation, Background Information, Research Question, Hypotheses, Variables, Procedures A & References will be scored by **HSTA Teacher**.
  + To pass you will need to receive all **42** points ***AND*** have been approved by teacher/CRA.
    - 9th/10th Graders Approved by HSTA Teacher and use Statewide Survey
    - 11th/12th Graders Approved by HSTA Teacher and CRA
  + Procedures B, Results, Data Analysis, Conclusion, & Presentation Skills will be scored at **Symposium**. To pass you will need to receive at least **20 out of 24** points.

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| --- | --- | --- |
| CONTENT | | 0 or 1 |
| Contracts  *2 pts* | Completed CITI/Ethics Contract: Due Date December 1st |  |
| Completed CITI/Lab/Safety Contract: Due Date December 1st |  |
| Title  *3 pts* | Title was a complete statement/question |  |
| Title matched the research question |  |
| Title clearly defined the purpose of the project |  |
| Observation  *3 pts* | Observation stated the project’s problem clearly |  |
| Observation included why this project was important to the community and me |  |
| Observation included a short summary of project including project type: prevalence, intervention, human experiment, or non-human experiment |  |
| Justification/ Background Research  *7 pts* | Background information was related to the research question |  |
| Background information was referenced using correct in-text APA citations for four sources |  |
| Background information is cited from at least two academic resources (i.e., Government Agency, Google Scholar) |  |
| Background information had at least two facts from each source totaling at least 8 facts |  |
| Background information was highlighted in bulleted format, not in paragraph form |  |
| Background information was not plagiarized (meaning summarized in own words) |  |
| Background information was limited to 20% of quotes |  |
| Research Question  *3 pts* | Research question was a focused and specific question |  |
| Research question was researchable |  |
| Research question was measurable |  |
| Variables  *4 pts* | Correct independent variable(s) |  |
| Correct dependent variable(s) |  |
| Correct control variable(s) (If no control, state no control) |  |
| Correct constant variables (At least three) |  |
| Hypotheses  *4 pts* | Hypothesis was based on research question and variables |  |
| Hypothesis is testable by a statistical test |  |
| Explain why this is your hypothesis using some of your background research |  |
| Null Hypothesis was stated correctly |  |
| Procedures A  *11 pts* | Project Procedures are listed below: Prevalence, Human Intervention, Human Experiment and Non-Human Experiment |  |
| Procedures B  2 pts | Procedures are written in past tense |  |
| Results displayed pictorial evidence of research study (photos) |  |
| Results  *6 pts* | Results displayed raw data in a chart |  |
| Results included descriptive statistics (averages, percentages, etc.) |  |
| Results included a properly labeled graph(s) (title, key, x-axis, y-axis) |  |
| Results including graphs and charts were explained well |  |
| Correct Number of Participants/Replications   * Prevalence – 100 Participants * Intervention – 30 Participants (Pre/Post) * Human Subjects – 30 Participants in each group (at least one control/one experimental) * Experiment – at least 5 replications in each group (at least one control/one experimental) |  |
| Results displayed data that matched research question |  |
| Data Analysis  *4 pts* | Data analysis included a statistical test used to test the hypotheses |  |
| Data analysis included an explanation of why that statistical test was used |  |
| Data analysis included a p-value |  |
| Data analysis included an explanation of the statistical significance of statistical test |  |
| Conclusion  *5 pts* | Conclusion included a brief summary of the project |  |
| Conclusion interpreted the data to conclude if it supported/rejected hypotheses |  |
| Conclusion answered the research question |  |
| Conclusion discussed limitations |  |
| Conclusion discussed how student(s) would implement change and/or bring awareness to their community |  |
| References  *5 pts* | Reference slide included 4 or more academic sources |  |
| Reference slide had ONLY in-text citations that were included as full references |  |
| References were in the correct APA format |  |
| References were listed in alphabetical order |  |
| References were listed with hanging indents |  |
| Presentation Skills  *7 pts* | Student(s) spoke clearly during the presentation |  |
| Student(s) could answer questions with confidence |  |
| Student(s) didn’t read slides word for word |  |
| Student(s) presented slides in the correct order |  |
| Presentation had limited spelling/grammar errors |  |
| Presentation’s background (color/animation) was not distracting |  |
| Presentation’s text size/font were consistent |  |

## Project Types – Procedures A

|  |  |  |  |
| --- | --- | --- | --- |
| ***Prevalence*** | ***Intervention*** | ***Human Experiment*** | ***Experiment*** |
| Procedures were numbered | Procedures were numbered | Procedures were numbered | Procedures were numbered |
| Procedures identified all safety precautions (including how participants' identity will be kept confidential) | Procedures identified all safety precautions (including how participants' identity would be kept confidential) | Procedures identified all safety precautions (including how participants' identity would be kept confidential) | Procedures identified all safety precautions |
| Procedures explained who the study population was | Procedures explained who the study population was | Procedures explained who the study population was | Procedures explained what plant, natural resource, invertebrate (other) the project was experimenting with |
| Procedures explained what the study population did | Procedures explained details of the of the intervention | Procedures explained what the study population did | Procedures explained details of the experimental environment and/or change in environment (if you have more than one experimental group explain differences among all groups) |
| Procedures explained how at least 100 participants were recruited | Procedures explained how at least 30 participants were recruited | Procedures explained how at least 30 participants were recruited for EACH group (experimental & control) | Procedures included a control group |
| Procedures included a copy of the measurement tools (Example: Survey/observation sheet) | Procedures included a copy of the pre and post measurement tools (Example: Survey/ observation sheet) | Procedures included a copy of the measurement tools (Example: Survey/observation sheet) | Procedures included a list of materials |
| Procedures included a participant cover letter explaining the project | Procedures included a participant cover letter explaining the project | Procedures included a participant cover letter explaining the project | Procedures explained that there were at least 5 replications per experimental group |
| Procedures included data collection sheet | Procedures included data collection sheet | Procedures included data collection sheet | Procedures data collection sheet |
| Procedures explained how data was collected | Procedures explained how pre and post data was collected | Procedures explained how data was collected | Procedures explained how data was collected |
| Procedures included how data will be analyzed | Procedures included how data will be analyzed | Procedures included how data would be analyzed | Procedures included how data would be analyzed |
| Procedures provided clear description of project | Procedures provided clear description of project | Procedures provided clear description of project | Procedures provided clear description of project |