# Research Proposal Score Sheet – Non-Human Experiment Projects

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| CONTENT | | | 0 or 1 | |
| 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. | |  | |
| Background Research  *8 pts* | Background information included two facts about the independent variable or variable one. | |  | |
| Background information included two facts about the dependent variable or variable two. | |  | |
| Background information included four facts about the relationship between the independent and the dependent variables or variable one and variable two. | |  | |
| Background information was referenced using correct in-text APA citations. | |  | |
| Background information is cited from at least four academic references (i.e. government agency, Google Scholar articles). | |  | |
| Background information was highlighted in bulleted format, not in paragraph form. | |  | |
| Background information was not plagiarized (summary in own words). | |  | |
| Background information was limited to 20% of quotes. | |  | |
| Research Question  *3 pts* | Research question includes the independent and dependent variables or variable one and variable two, and characteristics of the study population (where applicable). | |  | |
| Research question identifies the relationship or difference being investigated between the independent and dependent variables or variable one and variable two. | |  | |
| Research question has been reviewed by a CRA and has been determined to be safe and ethical. | |  | |
| Variables  *4 pts* | Correct independent variable OR variable one. | |  | |
| Correct dependent variable OR variable two. | |  | |
| Correct control (If no control, state no control). | |  | |
| Correct Inclusion Criteria or Constants   * Two or more inclusion criteria * Cross Sectional/Prevalence * Intervention * Human Subject Experiment     OR     * Two or more constants * Non-Human Subject Experiment | |  | |
| Hypotheses  *4 pts* | Alternative hypothesis is a statement of an effect/relationship between the independent and dependent variables or variable one and variable two. | |  | |
| Null hypothesis has been reviewed by a CRA and has been determined to be testable using an approved statistical test. | |  | |
| Alternative hypothesis is justified using some of your background research on the hypotheses slide. | |  | |
| Null hypothesis is a statement of no effect/relationship between the independent and dependent variables or variable one and variable two. | |  | |
| Procedures  *11 pts* | Procedures were numbered in the order that each step was completed. | |  | |
| Procedures identified all safety precautions (i.e., completed lab safety training). | |  | |
| Procedures explained what plant, natural resource, invertebrate (other) the project was experimenting with. | |  | |
| 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 included a control group. | |  | |
| Procedures included a list of materials used for the project. | |  | |
| Procedures explained that there were at least 5 replications per experimental group. | |  | |
| Procedures provided a clear description of the project. | |  | |
| Procedures data collection sheet. | |  | |
| Procedures explained how data was collected.​ | |  | |
| Procedures included how data would be analyzed (i.e. states the name of the statistical test to be used). | |  | |
| References  *4 pts* | | Reference slide included 4 or more academic references. | |  |
| Reference slide had ONLY in-text citations that were included as full references. | |  |
| References were in the correct APA format (including being placed in alphabetical order). | |  |
| References were listed with hanging indents. | |  |