# 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.  |   |