## WInSTEP/SEPA Research Paper Rubric

Name(s) ____________________________________________

School ____________________________________________

Total Score (Maximum 24) _________________________ Reviewer(s) _________________________

<table>
<thead>
<tr>
<th></th>
<th>Absent - 0</th>
<th>Weak - 1</th>
<th>Good - 2</th>
<th>Excellent - 3</th>
<th>Score</th>
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</thead>
</table>
| **Abstract**   | None Present | Contains 1 of the following:  
• Brief overview of the research/purpose of the experiment/ importance  
• Brief description of methods/findings  
• Significance of results-related to human health | Contains 2 of the following:  
• Brief overview of the research/purpose of the experiment/ importance  
• Brief description of methods/findings  
• Significance of results-related to human health | Contains 3 of the following:  
• Brief overview of the research/purpose of the experiment/ importance  
• Brief description of methods/findings  
• Significance of results-related to human health | |
| **Introduction** | None Present | Contains 1 of the following:  
• Background research on topic explained/referenced  
• Statement of testable research question/ rationale  
• Statement of hypothesis | Contains 2 of the following:  
• Background research on topic explained/referenced  
• Statement of testable research question/ rationale  
• Statement of hypothesis | Contains 3 of the following:  
• Background research on topic explained/referenced  
• Statement of testable research question/ rationale  
• Statement of hypothesis | |
| **Materials and Methods** | None Present | Contains 1 of the following:  
• Provides a detailed, step-by-step description of procedure, list of materials used, safety precautions  
• Describes how outcomes were measured  
• Description of statistical methods/data gathering | Contains 2 of the following:  
• Provides a detailed, step-by-step description of procedure, list of materials used, safety precautions  
• Describes how outcomes were measured  
• Description of statistical methods/data gathering | Contains 3 of the following:  
• Provides a detailed, step-by-step description of procedure, list of materials used, safety precautions  
• Describes how outcomes were measured  
• Description of statistical methods/data gathering | |
| **Results**     | None Present | Contains 1 of the following:  
• Describes the experimental design  
• Correctly identifies independent and dependent variables, controls and their relationship  
• Connects the results to the aims of the experiment | Contains 2 of the following:  
• Describes the experimental design  
• Correctly identifies independent and dependent variables, controls and their relationship  
• Connects the results to the aims of the experiment | Contains 3 of the following:  
• Describes the experimental design  
• Correctly identifies independent and dependent variables, controls and their relationship  
• Connects the results to the aims of the experiment | |
| **Data Presentation** | None Present | Contains 1 of the following:  
- Appropriate data presented (data matches research question)  
- Well labeled graphs, tables /charts displaying the raw data  
- Graphs and charts explained | Contains 2 of the following:  
- Appropriate data presented (data matches research question)  
- Well labeled graphs, tables /charts displaying the raw data  
- Graphs and charts explained | Contains 3 of the following:  
- Appropriate data presented (data matches research question)  
- Well labeled graphs, tables /charts displaying the raw data  
- Graphs and charts explained |
|-----------------------|---------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| **Data Analysis**     | None Present  | Contains 1 of the following:  
- Correct statistical test used  
- Correctly explained why statistical test was used  
- Correctly explained statistical significance of results | Contains 2 of the following:  
- Correct statistical test used  
- Correctly explained why statistical test was used  
- Correctly explained statistical significance of results | Contains 3 of the following:  
- Correct statistical test used  
- Correctly explained why statistical test was used  
- Correctly explained statistical significance of results |
| **Discussion**       | None Present  | Contains 1 of the following:  
- Significant results are highlighted, explains relationship between data and hypothesis (data supports or fails to support hypothesis), trends in data  
- Discusses limitations of project/errors  
- Links work with larger body of knowledge presented in Introduction/relevance | Contains 2 of the following:  
- Significant results are highlighted, explains relationship between data and hypothesis (data supports or fails to support hypothesis), trends in data  
- Discusses limitations of project/errors  
- Links work with larger body of knowledge presented in Introduction/relevance | Contains 3 of the following:  
- Significant results are highlighted, explains relationship between data and hypothesis (data supports or fails to support hypothesis), trends in data  
- Discusses limitations of project/errors  
- Links work with larger body of knowledge presented in Introduction/relevance |
| **Overall Presentation** | Contains 1 of the following:  
- References cited correctly and are appropriate  
- Limited spelling/grammar errors  
- Well organized, formatted properly | Contains 2 of the following:  
- References cited correctly and are appropriate  
- Limited spelling/grammar errors  
- Well organized, formatted properly | Contains 3 of the following:  
- References cited correctly and are appropriate  
- Limited spelling/grammar errors  
- Well organized, formatted properly |

Comments:

References: