**Judge's Name:** _____

Project Title: _____:     ID: _____

Directions: Circle the number that best describes the Project. The lowest score is zero and the highest score is three

**PROBLEM:** To what degree is the problem new and/or different and how well is it written?
(0) no problem statement
(1) Incomplete problem statement
(2) Complete problem statement, and well written
(3) Complete, well-written problem statement and a new idea for the student

**HYPOTHESIS:** To what degree is this a testable prediction?
(0) no hypothesis
(1) Incomplete hypothesis
(2) Hypothesis present, but not completely testable
(3) Well-written testable hypothesis

**EXPERIMENTAL DFSIGN**:
How well is the plan developed to validate the hypothesis?
(0) locks overall plan to validate or confirm the hypothesis
(1) Partial plan validate or confirm the hypothesis
(2) Sufficient plan to validate or confirm the hypothesis
(3) Exemplary plan to validate or confim1 the hypothesis

**EXPERIMENTAL PROCEDURES**: To what degree does the sequential experimental process connect the hypothesis, data, and results?
(0) experimental procedures are not listed
(1) Experimental procedures are incomplete and/or not listed step by step
(2) Experimental procedures are complete and listed step-by-step
(3) Experimental procedures are quantitatively and/or qualitatively listed step by step

**VARIABLES AND CONTROLS**: How well are the variables identified and controlled?
(0) no variables are identified or controlled
(1} variables are identified but not controlled
(2.) Variables identified and some variables are controlled
(3) Variables are carefully identified and controlled

**MATERIALS/ EQUIPMENT:** How were the items utilized in appropriate and/or new ways?
(0) no materials or equipment identified or used in an unsafe manner
(1) Materials not appropriately identified and/or used safely

(2) Materials appropriately identified and used safely

(3) Materials carefully identified and used above expectations


**DATA COLLECTION**: To what degree are the method, number of trials, and quantity of data appropriate?

(0) no quantitative data collected

(1) Insufficient data collected

(2) Sufficiently data collected

(3) Data collected above expectations


**DATA PREENTATION**: How well. do the graphs, tables, logs, pictures, charts, or other visual aids present the data'?

(0) no presentation of data

(1) Data partially and/or not clearly presented

(2) Data sufficiently and clearly presented

(3) Data presentation exceeds expectations


**DATA ANALYSIS**: How well are the results interpreted? How well have the possible errors been analyzed?

(0) no interpretation of data

(1) Partial interpretation of data

(2) Correct mid appropriate interpretation of data

(3) Comprehensive and significant interpretation of data with error analysis


**OUTCOMES:**

How well are the <u>conclusions</u> and/or <u>products</u> identified and interpreted?

How important are the <u>findings</u>?

(0) no conclusions and/or products identified

(1) Incomplete conclusions and/or products identified

(2) Apparent conclusions and/or products identified

(3) Inherent, significant conclusions and/or products clearly identified


**APPLICATIONS:** How well are new relationships, ideas and/or additional investigations identified and presented.?

(0) no applications identified

(1) Applications vaguely identified

(2) Apparent applications identified

(3) Significant, practical applications identified

**VISUAL DISPLAY**: How well is the project constructed and organized? Are spelling and sentence structure correct?
(0) poor display, construction, and/or grammar
(1) Fair display construction and/or grammar
(2) Good display, construction and/or grammar
(3) Exemplary display, construction and/or grammar

**ORAL PRESENTATION**: How clear and well prepared is the presentation? How complete is the presenter's knowledge and use of resources?
(0) poor presentation; .lack of knowledge/no use of resources
(1) Fair presentation; little knowledge/poor use of resources
(2) Good presentation; adequate knowledge/adequate use of resources

**INTERVIEW**: How precisely are questions answered?
How complete is the student's understanding of the experimental work?
(0) cannot answer questions adequately and precisely
(1) Partially answered questions
(2) Adequate, precise answers to most questions
(3) Adequate, precise answers to all questions