

# **Science Fair Central**

## **Sample Judge's Worksheet**



**Project Title:** \_\_\_\_\_

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

### **Evaluation Criteria**

**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 DESIGN:** How well is the plan developed to validate the hypothesis?

- (0) lacks overall plan to validate or confirm the hypothesis
- (1) partial plan to validate or confirm the hypothesis
- (2) sufficient plan to validate or confirm the hypothesis
- (3) exemplary plan to validate or confirm 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) sufficient data collected
- (3) data collected above expectations

**DATA PRESENTATION:** 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 and appropriate interpretation of data
- (3) comprehensive and significant interpretation of data with error analysis

**OUTCOMES:** How well are the conclusions and/or products identified and interpreted?

How important are the findings?

- (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