

Year: 20 _____

The OHIO ACADEMY of SCIENCE
Science Day Judging Card - SCIENCE



Event: _____

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| | | | | |
|--|--|---------------------------------|----------------------|--|
| JUDGES: Please indicate your evaluation of each subsection by placing a checkmark in the appropriate box. (max. 10 points each section) | | | | |
| SECTION #1: ORAL, WRITTEN, AND VISUAL COMMUNICATION: Tell me about your project? May I see your report? <i>Judges are encouraged to consider student abilities (or potential disabilities) in all three types of communication when assigning points</i> | | Superior (Exceeds) | Excellent (Meets) | Good |
| <u>Written:</u> Well documented lab journal (background and research notes, raw data and graphs) AND Research Report (includes relevant background, research question and hypothesis showing how it is related to background, experimental design and procedures, data acquisition techniques, data analysis, conclusion and bibliography citing journals, textbooks). Both journal and report present. | | | | |
| <u>Oral:</u> Correct and concise explanation of project, design, and analysis. Responses reflect correct understanding of experimental results and limitations of, expansions of, and/or impact of project. | | | | |
| <u>Visual:</u> Logical organization of material, neatly displayed, graphics and legends appropriate to project, easy to read and understand. Photos and graphics cited. Includes required information. | | | | |
| Comments /Feedback(Required): | | Points Earned: _____ /10 | | |
| | | | | SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3 |
| SECTION #2: ORIGINALITY: <i>Where did you get the idea for your project, experiment design, and analysis? What interests you about this topic? Did you modify any designs that you found and if so, how?</i> | | Superior (Exceeds) | Excellent (Meets) | Good |
| Project displays originality in concept relative to grade level (i.e. not "cookbook", not classroom lab, not a simple extension of "found" idea) New idea, concept, principle, insight or non-obvious approach; Novel association or relationship of previous knowledge, particularly rigorous and exhaustive analyses that reveals previously unknown relations, etc. | | | | |
| Evidence of student's unique understanding and development of the project | | | | |
| Comments /Feedback(Required): | | Points Earned: _____ /10 | | |
| | | | | SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3 |

| SECTION #3: EXPERIMENTAL DESIGN: <i>What question are you trying to answer and how did you decide to go about answering it? What did you learn from the data?</i> | Superior (Exceeds) | Excellent (Meets) | Good |
|--|---------------------------------|---|------|
| Project addresses a clear, focused problem or question with hypothesis that is testable using scientific methods. | | | |
| Well-designed plan and data collection methodology which identifies variables and controls. Grade appropriate control of variables (Not a summary of known science) | | | |
| Reproducible and sufficient data are collected. Data collected reflect correct selection and use of scientific equipment/acquisition. | | | |
| Data are properly analyzed. Appropriate graphs illustrate the data. Statistics appropriate to the age of student are correctly used. | | | |
| Valid conclusions are reached from the data obtained. Age appropriate discussion of results. Sources of error identified. | | | |
| Comments/Feedback (Required): | Points Earned: _____ /10 | | |
| SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3 | | | |
| SECTION #4: DEPTH OF UNDERSTANDING: <i>What did you learn about the science behind your project before and during the experiment?</i> | Superior (Exceeds) | Excellent (Meets) | Good |
| Adequate age appropriate background research (journals, textbooks, websites, etc.) relevant to the project which provides basis for hypothesis. | | | |
| Supplements answers with relevant information reflecting knowledge gained during the project. | | | |
| Age appropriate use of terms and principles. | | | |
| Age appropriate exploration of science in subject, depth of investigation, sophistication of project. | | | |
| Comments/Feedback (Required): | Points Earned: _____ /10 | | |
| SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3 | | | |
| SECTION #5: TEAMWORK: <i>How did your group function as a team? How was a team effort used to complete this project?</i> | Superior (Exceeds) | Excellent (Meets) | Good |
| All members of the team show an understanding and active participation in the entire project. | | | |
| All members of the team participate equally in the presentation of project; correctly and clearly answering questions. | | | |
| The necessity of the individual expertise contributed by each team member is clear. | | | |
| Comments/Feedback (Required): | Points Earned: _____ /10 | | |
| SUPERIOR 9-10 EXCELLENT 6-7-8 GOOD 4-5 SATISFACTORY 0-3 | | | |
| Total Points Earned (completed by judges) | | Overall Rank (CIRCLE) | |
| Section 1: _____ / 10 | Section 4: _____ / 10 | Superior (45-50) Excellent (30-44) Good (15-30) *Satisfactory (0-14) | |
| Section 2: _____ / 10 | Section 5: _____ / 10 | | |
| Section 3: _____ / 10 | Total: _____ / 50 | | |

*Satisfactory rank is not used at State Science Day. Use is optional at Local and District Science Days at the discretion of event administrators.

JUDGE'S Printed Name _____ Signature _____