# Judging Tally Sheet - Elementary and Intermediate

Complete **one of A1, A2 or A3** according to Project Type plus **sections B and C** for each project.
Give each point a rating of either Weak (1), Fair (2), Good (3) or Strong (4).

## A1: Experiment – Scientific value

**Project Number** _____  _____  _____  _____

| | | | | |
|---|---|---|---|---|
| **Problem or Hypothesis**<br>Clearly stated?<br>Can student explain why they found it interesting? | | | | |
| **Background and Sources**<br>Evidence of background reading or other background research?<br>Were outside sources adequately credited? | | | | |
| **Experimental Design**<br>Appropriate for hypothesis?<br>Does student show an understanding of the scientific method and its principles?<br>Understanding of controls and variables?<br>Adequate replication? | | | | |
| **Recording and Presentation of Data**<br>Did student record data adequately during experiment?<br>Did the student identify key points and concepts?<br>Data presented clearly (figures, graphs, tables)? | | | | |
| **Inferences from Data**<br>Did student understand sources of error?<br>Were extrapolations of data appropriate?<br>Was appropriate statistical analysis performed?<br>Acknowledgments of unknowns and areas that require research?<br>Did the student show critical thinking and analytical skills? | | | | |
| **Conclusions**<br>Justified by data?<br>Clearly presented?<br>Could the student relate results to their Problem or Hypothesis?<br>Was help with the project adequately acknowledged (e.g. parents, teachers)? | | | | |

## A2: Innovation – Scientific value

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| **Problem or Hypothesis**<br>Clearly stated?<br>Can student explain why they found it interesting? | | | | |
| **Background and Sources**<br>Evidence of background reading or other background research?<br>Were outside sources adequately credited? | | | | |
| **Innovation Design**<br>Did the project's design address the original objective?<br>Did the student establish criteria for the success of the project? | | | | |
| **Construction**<br>Did the student create/gather appropriate technology to meet the objective?<br>Were problems encountered and overcome? | | | | |
| **Testing**<br>Did the student design adequate tests of the project?<br>Did the student record, analyze and present testing data adequately?<br>Did testing reveal shortcomings of the design?<br>Did testing lead to improvements in the design? | | | | |
| **Results and Conclusions**<br>Did the project's outcome meet the objective?<br>Was help with the project adequately acknowledged (e.g. parents, teachers)? | | | | |

For Judges only. DO NOT return to students.

## A3: Study – Scientific value

**Project Number** _____ _____ _____ _____

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|---|---|---|---|---|
| **Problem or Hypothesis**<br>Clearly stated?<br>Can student explain why they found it interesting? | | | | |
| **Background and Sources**<br>Evidence of background reading or other background research?<br>Were outside sources properly credited? | | | | |
| **Study Design**<br>Appropriate for objective?<br>Definition/understanding of dependent/independent variables?<br>Adequate replication? | | | | |
| **Recording and Presentation of Data**<br>Did student record data adequately during study?<br>Did the student identify key points and concepts?<br>Data presented clearly (figures, graphs, tables)? | | | | |
| **Inferences from Data**<br>Did student understand sources of error?<br>Were extrapolations of data appropriate?<br>Was appropriate statistical analysis performed?<br>Acknowledgments of unknowns and areas that require research?<br>Did the student show critical thinking and analytical skills? | | | | |
| **Conclusions**<br>Justified by data?<br>Clearly presented?<br>Could the student relate results to their Problem or Hypothesis?<br>Was help with the project adequately acknowledged (e.g. parents, teachers)? | | | | |

## B: Creativity

| | | | | |
|---|---|---|---|---|
| **Resourcefulness and Imagination**<br>Imaginative or creative choice of topic?<br>Resourceful or imaginative use of technology to gather data?<br>Imaginative interpretation of data? | | | | |
| **Future Work**<br>Suggestions for improvement?<br>Suggestions for future research/testing?<br>Suggestions for applications? | | | | |

## C: Communication

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|---|---|---|---|---|
| **Written Report**<br>Clear? Concise? Logical?<br>Followed guidelines? | | | | |
| **Oral Presentation and Project Display**<br>Clear? Concise? Logical?<br>Enthusiastic? Answered questions well? | | | | |

## Special Notes (Not returned to students)

| Project Number _____ | Project Number _____ | Project Number _____ | Project Number _____ |
|---|---|---|---|
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