



Judging Tally Sheet - Junior and Senior

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 Clearly stated? Provided direction for the project? Can the student explain why they found it interesting?				
Background and Sources Evidence of background reading or other background research? Multiple, independent sources used and verified? Were sources used credible? Were outside sources properly credited?				
Experimental Design Was the experiment appropriate at testing the hypothesis? Understanding of controls? Understanding of variables that can be manipulated? Adequate replication? Understanding of the effect of variables that cannot be manipulated?				
Recording/presentation of Data Did student record data adequately during experiment? Did student understand the technology used in collecting data? Did the student identify key points and concepts? Data presented clearly (figures, graphs, tables)? Was data presented in the appropriate format?				
Inferences from Data Did student understand sources of error? Were errors accounted for? Did the student understand the limitations of the experiment? Were extrapolations of data appropriate? Was appropriate statistical analysis performed? Does student understand statistical significance? Did the student show critical thinking and analytical skills? Acknowledgments of unknowns and areas that require research?				
Conclusions Justified by data? Clearly presented? Could the student relate results to their Problem or Hypothesis? Was help with the project adequately acknowledged (e.g. parents, teachers)?				

A2: Innovation - Scientific value

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

A3: Study - Scientific value

Project Number _____

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

B: Creativity

<p>Resourcefulness and Imagination Imaginative or creative choice of topic? Was the project original and novel? Resourceful or imaginative use of technology to gather data? Imaginative interpretation of data?</p>				
<p>Future Work Suggestions for improvement? Suggestions for future research/testing? Suggestions for applications?</p>				

C: Communication

<p>Written Report Clear? Concise? Logical? Followed guidelines?</p>				
<p>Oral Presentation/Project Display Clear? Concise? Logical? Enthusiastic? Answered questions well?</p>				

Special Notes (Not returned to students)

Project Number _____	Project Number _____	Project Number _____	Project Number _____