



**Minnesota Academy of Science
Junior Science & Humanities Symposium (JSHS)
Judges Scoresheet and Criteria**



Name of Student(s): _____

Name of Judge: _____

Judging Criteria	Possible Points	Points Awarded
<p>Statement and identification of research problem</p> <ul style="list-style-type: none"> • Is the problem clearly stated? • Does the presenter demonstrate understanding of existing knowledge about the research problem? 	1-5 pts	
<p>Scientific thought, creativity, and originality</p> <ul style="list-style-type: none"> • Process skills demonstrated by the student in the solution to the research problem and/or the research design • Student demonstrates his or her individual contributions to and understanding of the research problem • Level of effort 	1-5 pts	
<p>Research design, procedures, materials, methods, and results For <i>scientific research</i> projects only</p> <ul style="list-style-type: none"> • Appropriateness of research design and procedures • Identification and control of variables • Reproducibility <p>For <i>engineering</i> projects only</p> <ul style="list-style-type: none"> • Workable solutions that are acceptable to potential users • Recognition of economic feasibility of solution • Recognition of relationship between design and end product • Tested for performance under conditions of use • Results offer an improvement over previous alternatives 	1-5 pts	
<p>Discussion and conclusions</p> <ul style="list-style-type: none"> • Clarity in stating conclusion • Logical conclusion that is relevant to the research problem and results of experimentation or testing • Recognizes limits and significance of results • Evidence of student's understanding of the scientific or technological principles • Theoretical or practical implications recognized • What was learned? 	1-5 pts	
<p>Skill in communicating research results</p> <ul style="list-style-type: none"> • Clarity in communicating research results to non-specialized audience and to judges • Definition of terms as necessary • Appropriate use of audio-visuals • Response to questions from audience and judges 	1-5 pts	
<p>Acknowledgement of sources and major assistance received</p> <ul style="list-style-type: none"> • Did the student properly cite any sources referenced? • Did the student acknowledge their research advisors and/or lab assistants? 	1-5 pts	
TOTAL POINTS	30 pts	_____/30