

JUNIOR SCIENCE & HUMANITIES SYMPOSIUM
SCIENTIFIC RESEARCH, ENGINEERING, AND MATHEMATICS INVESTIGATIONS

Name of Student: _____ Name of Judge: _____

Judging Criteria	MAX. SCORE	ACTUAL SCORE
Statement and identification of research problem <ul style="list-style-type: none"> • Clarity in stating problem under study; • Demonstrated understanding of research problem • Understanding of background information relevant to research problem 	(15)	
Acknowledgement of sources and major assistance received	(10)	
Creativity and originality Student demonstrates originality, or creativity in approach to research or engineering study Student demonstrates problem-solving skills	(15)	
Research design, procedures (materials & methods), results 1. Science, or <ul style="list-style-type: none"> • Student's involvement in designing the investigation • Appropriateness of research design and procedures • Identification and control of variables • Reproducibility • Level of effort 2. Engineering, computer science, technology <ul style="list-style-type: none"> • Workable solution that is acceptable to a potential user • Recognition of economic feasibility of solution • Recognition of relationship between design and end product • Tested for performance under conditions of use • Results offer a significant improvement over previous alternatives • Level of effort 	(15)	
Discussion/Conclusions <ul style="list-style-type: none"> • Clarity in stating conclusion; conclusions are supported by 1) data (science), or 2) results of testing of design (engineering) • Recognizes limitations and significance of results • Evidence of student's understanding of the scientific or technological principles • Theoretical or practical implications recognized or understood • What was learned? New questions raised? Future research? 	(25)	
Oral Presentation and written report <ul style="list-style-type: none"> • Skill 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 	(20)	
	TOTAL (100)	
III. Comments		