

NORTHERN CALIFORNIA WESTERN NEVADA REGION
JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM
SCIENTIFIC RESEARCH, ENGINEERING, AND MATHEMATICS INVESTIGATION

Name of Student: _____ Name of Judge _____

JUDGING CRITERIA

	Max Score	Actual Score
Statement and Identification of Research Problem		
* Clarity in stating problem under study		
* Demonstrated understanding of research problem		
* Understanding of background information relevant to research problem		
TOTAL SCORE	15	
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Acknowledgement of Sources and Major Assistance Received		
TOTAL SCORE	10	
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Creativity and Originality		
* Student demonstrates originality or creativity in approach to research or engineering study		
* Student demonstrates problem-solving skills		
TOTAL SCORE	15	
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Research Design, Procedures (materials and methods), Results		
1. SCIENCE PRESENTATIONS		
* 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 PRESENTATIONS		
* 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		
TOTAL SCORE	15	
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Discussion/Conclusions		
* Clarity in stating conclusion: Science conclusions are supported by data - Engineering conclusions are supported by results of testing		
* 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?		
TOTAL SCORE	25	
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Oral Presentation and Written Report		
* Skill in communicating research results to non-specialized audience and judges		
* Definition of terms as necessary		
* Appropriate use of audio-visual materials		
* Response to questions from judges and audience		
TOTAL SCORE	20	
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TOTAL POSSIBLE SCORE		100