

## SSRSEF Judges Feedback For 5-12

### Based on Next Generation Science Standards and International Fair Criteria

Student Name: \_\_\_\_\_

Grade: \_\_\_\_\_ Judges: \_\_\_\_\_

**Comments (Use other side if needed)**

<p><b>1 Asking Questions, Defining Problems</b></p> <ul style="list-style-type: none"> <li>• Identified a problem</li> <li>• Asked clear and focused questions to clarify, extend, seek relationships, refine, challenge, develop a process or system or model</li> <li>• Where appropriate developed a hypothesis</li> <li>• Asked testable and relevant questions</li> </ul>	
<p><b>2 Planning and Carrying out Investigations</b></p> <ul style="list-style-type: none"> <li>• If appropriate, built a model</li> <li>• Develop well-designed plan and data collection methods to produce evidence: collect, record, analyze and evaluate</li> <li>• Define and manipulate variables and controls to identify problems or improvements</li> </ul>	
<p><b>3 Analyze and Interpret Data</b></p> <ul style="list-style-type: none"> <li>• Analyzed data using tools, technology, models, mathematics (including statistics and probability) to determine solutions</li> <li>• Understood interpretation and limitations of results and conclusions</li> <li>• If appropriate, model redesigned and information gathering steps above repeated</li> </ul>	
<p><b>4 Explanations and Solutions</b></p> <ul style="list-style-type: none"> <li>• Made a claim, constructed an explanation, refined a solution based on evidence</li> <li>• Applied scientific ideas, principles and theories to conclusion</li> </ul>	
<p><b>5 Engaging in Argument from Evidence</b></p> <ul style="list-style-type: none"> <li>• Compared and evaluated competing ideas, based on scientific knowledge, societal factors (economics, ethics, history), and your own evidence</li> <li>• Used data based oral and written argument</li> </ul>	
<p><b>6 Evaluating and Communicating Information</b></p> <ul style="list-style-type: none"> <li>• Read, evaluated, and synthesized a variety of technical information and explained its relevance and validity to your work</li> <li>• Presented your information in multiple formats (oral, text, graphics, models, mathematics)</li> <li>• Identified degree of independence in conducting project</li> <li>• Addressed potential impact in science, society, and/or economics, quality of ideas for further research</li> <li>• For team projects, contributions to and understanding of project by all members</li> </ul>	