

# FASF JUDGING FEEDBACK SHEET \* Grades 9-12

Project Title & Entry #:	Exceeds expectations	Meets expectations	Beginning	No Evidence	SUBTOTAL
<b>Scientific Method / Experimental Design</b>	E	M	B	NE	
1. Asks a clear, specific, measurable, cause and effect question requiring experimentation.	3	2	1	0	
2. Student could reasonably understand the underlying science & interpret the results.	3	2	1	0	
3. Original topic or approach.	3	2	1	0	
4. Clear and specific hypothesis identifying independent and dependent variables and	3	2	1	0	
5. Developed good procedures for testing the hypothesis, including use of control variables.	3	2	1	0	
6. Clear and thorough processes for data observation and collection.	3	2	1	0	
7. Ran sufficient trials (at least 3) to determine answer to question, including assessment of variables to be considered.	3	2	1	0	
8. Accurate experimental techniques.	3	2	1	0	
9. Well-documented and complete logbook present that contains dates, times, places of experimentation, observations, materials, methods, procedures, references and thoughts.	3	2	1	0	
10. Complete and thorough data (logs, graphs, tables, photos, etc.).	3	2	1	0	
11. Derived conclusions from appropriately organized and summarized data as well as an understanding of the underlying scientific principles.	3	2	1	0	
12. Related conclusions back to the hypothesis.	3	2	1	0	
13. Demonstrates knowledge of the scientific method.	3	2	1	0	
<b>Scientific Knowledge</b>	E	M	B	NE	
14. Accessed a minimum of three age-appropriate sources (including journals and/or reference texts) for background research.	3	2	1	0	
15. Clearly identified and explained key scientific concepts relating to the experiment.	3	2	1	0	
16. Used scientific principles and/or mathematical formulas correctly in the experiment.	3	2	1	0	
17. Student suggests changes to the experimental procedure and/or possibilities for further study while evaluating the success and effectiveness of the project.	3	2	1	0	
<b>Clarity, organization &amp; presentation</b>	E	M	B	NE	
18. Neat, well organized, visually appealing and is readable at ~2 feet distance. Flows logically from question to experiment to conclusion.	3	2	1	0	
19. Included key components to provide a thorough piece of the project (title, abstract, variables, hypothesis, summary of research findings, materials and procedures, data charts, graphs and/or pictures, results and conclusion).	3	2	1	0	
20. Pictures, diagrams, statistics effectively convey information about the project.	3	2	1	0	
21. Data analyzed properly, utilizing basic statistical tools, including recognition of unexpected results.	3	2	1	0	
22. References, sources of ideas or other assistance adequately identified.	3	2	1	0	
23. A typed formal report that includes: a clear statement of the question / problem, experimental design and methods, presentation and analysis of data, statement of results and conclusion, acknowledgements (including all help received) and a bibliography.	3	2	1	0	

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					SUBTOTAL				
<b>Overall creativity and innovation</b>					E	M	B	NE	
24. Student demonstrates an understanding of the subject matter and used unusual creativity and innovation in approaching their project.					3	2	1	0	
<b>Comments:</b>									

TOTAL SCORE: \_\_\_\_\_ / 72

- 72-50** Award of Excellence (Blue) \_\_\_\_\_
- 49-25** Honorable Mention (Red) \_\_\_\_\_
- 24-0** Award of Participation (White) \_\_\_\_\_

Trophy Winner: \_\_\_ 1<sup>st</sup> \_\_\_ 2<sup>nd</sup> \_\_\_ 3<sup>rd</sup>

Prize Winner: \_\_\_ 4<sup>th</sup> \_\_\_ 5<sup>th</sup> \_\_\_ 6<sup>th</sup>