

## Terra Fairs Research / Engineering Design Judging Rubric

CRITERIA	0	1	2	3	4
<b>Written Report</b> Title, Topic, Bibliography	No report	Incomplete report	Complete report	Well-written report	Not applicable
<b>Exhibit Presentation</b> Title, Topic, Key Theoreticians or Researchers, Model (if used), Photos or Illustrations (if appropriate)	No poster	<ul style="list-style-type: none"> <li>· Identifies few components of poster</li> <li>· Components are not easily understood</li> <li>· Components are not relevant to project</li> </ul>	<ul style="list-style-type: none"> <li>· Identifies most components of poster</li> <li>· Most components are easily understood</li> <li>· Most components are relevant to project</li> </ul>	<ul style="list-style-type: none"> <li>· Clearly identifies all components of poster</li> <li>· All components are easily understood</li> <li>· All components are relevant to project</li> </ul>	Not applicable
<b>Oral Presentation</b>	<ul style="list-style-type: none"> <li>· No evidence of planning and organization</li> <li>· Is not able to orally communicate about subject</li> </ul>	<ul style="list-style-type: none"> <li>· Little evidence of planning and organization</li> <li>· Is able to communicate little understanding of the subject</li> </ul>	<ul style="list-style-type: none"> <li>· Some evidence of planning and organization</li> <li>· Is able to communicate some understanding of the subject</li> </ul>	<ul style="list-style-type: none"> <li>· Carefully plans and organizes information in presentation</li> <li>· Clearly communicates information on subject</li> <li>· Utilizes visual tools in explaining subject</li> </ul>	<ul style="list-style-type: none"> <li>· Thoroughly plans and organizes information in presentation</li> <li>· Clearly &amp; confidently communicates subject</li> <li>· Utilizes several visual tools in explaining subject</li> </ul>
<b>Understanding of Scientific/ Engineering Principle(s)</b>	Shows no understanding	Shows little understanding of the principle	Shows some understanding of the principle	<ul style="list-style-type: none"> <li>· Shows a clear understanding of the principle</li> <li>· Identifies clear control to experiment</li> </ul>	<ul style="list-style-type: none"> <li>· Shows extensive knowledge of the principle</li> <li>· Identifies clear control to experiment</li> </ul>
<b>Ability to Answer Questions</b>	Cannot answer grade-level appropriate questions about subject	Can answer few grade-level appropriate questions about subject	Can answer some grade-level appropriate questions about subject	Can clearly and correctly answer most grade-level appropriate questions about subject	Can thoroughly, clearly, and correctly to answer all grade-level appropriate questions about subject

**Bonus Points:**

- Creative approach to presentation – 1 point
- Definite awareness of how the subject fits within overall science/engineering area – 1 point
- Definite plan for future research based on this literature review and project – up to 2 points
- Demonstration of advanced technical or laboratory techniques and skills – up to 2 points
- “New territory” in terms of scientific investigation or engineering design – up to 3 points

**Debit Points:**

- Any evidence of excessive quotation (lack of processing information into one’s own words; no effort evidenced that student[s] sought multiple sources for information) – up to 2 points
- Lack of citation of primary source – 1 point

**Debit Points for Teams:** Unequal teamwork – up to 2 points

**Removal:** Any evidence whatsoever of plagiarism by an individual or team



## Topic Presentation Judging Form



Directions: Check HERE \_\_\_\_\_ that NO DATA/RESULTS are reported!

*If you see evidence of data, request official review!*

Circle ONE in each row.

Place sticker here or write:  
STUDENT NAME \_\_\_\_\_

GRADE \_\_\_\_\_

PROJECT NAME \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

	Not seen	Seen to some extent	Outstanding
Scientific understanding	0	1	2
Creativity	0	1	2
Oral presentation skills	0	1	2
Quality visual presentation	0	1	2
Ability to answer questions	0	1	2

\_\_\_\_\_

Add or deduct points below if appropriate

\* Extra point: Has developed a research question +1

\* Deducted point: No citations given for information -1

TOTAL

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TOTAL