

Franklin Science Fair Championship Competition Engineering Project Judging Scorecard

| Student's name: | Superior | Above Average | Average | Below Average | No Evidence |
|---|-----------------|----------------------|----------------|----------------------|--------------------|
| Project title: | | | | | |
| Judge's name: | | | | | |
| Experimental Design Process (24 points possible) | | | | | |
| 1. Conception and execution of the project demonstrates originality and insight | 6 | 4.5 | 3 | 1.5 | 0 |
| 2. Accessed age-appropriate sources for background research addressing all key scientific concepts of the project | 6 | 4.5 | 3 | 1.5 | 0 |
| 3. Demonstrated ability to carry out experimental procedure to an age-appropriate level of precision | 6 | 4.5 | 3 | 1.5 | 0 |
| 4. Solved problems that arose with the experimental procedure. If necessary, re-designed the procedure and tried experiment(s) again | 6 | 4.5 | 3 | 1.5 | 0 |
| Data Collection and Conclusions (36 points possible) | | | | | |
| 5. Demonstration that the student did the actual work | 6 | 4.5 | 3 | 1.5 | 0 |
| 6. Variables and controls clearly defined | 6 | 4.5 | 3 | 1.5 | 0 |
| 7. Data are properly analyzed | 6 | 4.5 | 3 | 1.5 | 0 |
| 8. Data are interpreted correctly in the conclusion | 6 | 4.5 | 3 | 1.5 | 0 |
| 9. Data and results are clearly presented | 6 | 4.5 | 3 | 1.5 | 0 |
| 10. Is the solution workable? Is there a real life use for solution? | 6 | 4.5 | 3 | 1.5 | 0 |
| Presentation / Interview (40 points possible) | | | | | |
| 11. Student's interview provides a thorough picture of the project (question, background information, hypothesis and variables, materials and procedures, data charts and graphs, results, conclusions) | 8 | 6 | 4 | 2 | 0 |
| 12. Student can knowledgeably discuss the project | 8 | 6 | 4 | 2 | 0 |
| 13. Student demonstrates an appropriate use of scientific/engineering vocabulary | 8 | 6 | 4 | 2 | 0 |
| 14. Student demonstrates an enthusiasm for the project and their work | 8 | 6 | 4 | 2 | 0 |
| 15. Bonus points for overall superior project and presentation | 8 | 6 | 4 | 2 | 0 |
| Total Points: | | | | | |
| Comments for student: | | | | | |