

# Colorado 4-H Model Rocketry Project Judging Sheet

Member Name: \_\_\_\_\_

County: \_\_\_\_\_

Jr. \_\_\_\_\_ Int. \_\_\_\_\_ Sr. \_\_\_\_\_ Year in Project: \_\_\_\_\_

Exhibit: Completed project manual for Units 2-6 and E-Record.

Units 1, 2, 3, and 4—One rocket personally built or other display related to work done at respective skill level.

Judges may use the back of the form for more comments.

Project Level: (Check One)  
 Unit 1 Balsa \_\_\_\_\_ Unit 1 Non-Balsa \_\_\_\_\_  
 Unit 2 Balsa \_\_\_\_\_ Unit 2 Non-Balsa \_\_\_\_\_  
 Unit 3 \_\_\_\_\_ Unit 4 \_\_\_\_\_  
 Unit 6 \_\_\_\_\_

American System Placing: (Check One)  
 Champion \_\_\_\_\_  
 Reserve Champion \_\_\_\_\_  
 Placing 3-10 \_\_\_\_\_  
 Grand Champion \_\_\_\_\_

Danish System Award: (Check One)  
 (For County Use Only)  
 Blue \_\_\_\_\_  
 Red \_\_\_\_\_  
 White \_\_\_\_\_

## Judging Element 1: 4-H E-Record E=Excellent, G=Good, F=Fair and N/I=Needs Improvement—must have comments

| Item   | E | G | F | N/I | Comments |
|--|---|---|---|-----|----------|
| <b>Record Cover: Complete or Not Complete: Yes <input type="checkbox"/>, No <input type="checkbox"/></b>   |   |   |   |     |          |
| Project Goals<br>(Juniors at least 1 goal,<br>Intermediates at least 2 goals,<br>Seniors at least 3 goals)   |   |   |   |     |          |
| Project Info. & Activity Log<br>(Looking for project information—<br>meetings, tours, practices, etc. and<br>time spent on project)  |   |   |   |     |          |
| Demonstration<br>(At least one demonstration—does<br>not have to be in the project area)   |   |   |   |     |          |
| Community Service<br>(At least one community service—<br>does not have to be in they project<br>area)  |   |   |   |     |          |
| Expense Record<br>(Looking for the cost of practicing<br>and making the project)   |   |   |   |     |          |
| How Did You Do?<br>(Looking for the explanation of how<br>the person rated themselves)   |   |   |   |     |          |
| Project Photos<br>(Pictures should show the progress<br>of the project with captions)  |   |   |   |     |          |
| Project Story<br>(Should be related to the project)  |   |   |   |     |          |
| <b>Specific Project Information</b>  |   |   |   |     |          |
| Rockets Built including: skill level,<br>stock kit info, modified kit or self-<br>designed, power-single-stage,<br>multi-stage, cluster, the fuselage,<br>single tube, glider rear-engine or<br>glider front-engine or glider canard;<br>engine information; engine code,<br>label color, and type of recovery<br>system   |   |   |   |     |          |
| Rockets Launching Information:<br>Number of times successfully<br>launched, kind of launch pad used,<br>kind of electrical system used;<br>tracking method used; observer's<br>distance from rocket, angle<br>achieved and altitude achieved, any<br>special problems before, during and<br>after launching; and what you did to<br>overcome the problems you<br>encountered |   |   |   |     |          |
| Completed Questions for Units 2-6  |   |   |   |     |          |

## Judging Element 2: 4-H Model Rocketry Project Exhibit N/I=Needs Improvement—must have comments

| Item  | E | G | F | N/I | Comments |
|---|---|---|---|-----|----------|
| <b>Rocket Exhibit ----Meets Guidelines: Yes <input type="checkbox"/>, No <input type="checkbox"/></b> |   |   |   |     |          |
| General model construction and<br>quality of display  |   |   |   |     |          |
| Finish Paint System   |   |   |   |     |          |
| Decals—Tight and Straight   |   |   |   |     |          |
| Fin Alignment   |   |   |   |     |          |
| Airfoiling, filling sealing and<br>smoothness of fins   |   |   |   |     |          |
| Reinforcing fillet on fins and launch<br>lug  |   |   |   |     |          |
| Recovery system complete and in<br>place  |   |   |   |     |          |