



COLORADO STATE UNIVERSITY  
EXTENSION

# 4-H Model Rocketry

## Units 1-6

### Judging Sheet

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

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

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

American System Placing: (Check One)

Champion \_\_\_\_\_

Reserve Champion \_\_\_\_\_

Placing 3-10 \_\_\_\_\_

Grand Champion \_\_\_\_\_

Reserve Grand Champion \_\_\_\_\_

Danish System Award: (Check One)

(For County Use Only)

Blue \_\_\_\_\_

Red \_\_\_\_\_

White \_\_\_\_\_

Project Level: (Check One)

Unit 1 Balsa \_\_\_\_\_ Unit 1 Non-Balsa \_\_\_\_\_

Unit 2 Balsa \_\_\_\_\_ Unit 2 Non-Balsa \_\_\_\_\_

Unit 3 \_\_\_\_\_ Unit 4 \_\_\_\_\_ Unit 6 \_\_\_\_\_

Exhibit: Completed Model Rocketry e-Record and manual for Units 2, 3, 4, and 6 presented in a sturdy binder. Units 1, 2, 3, and 4 -- One rocket personally built or other display related to work done at respective skill level. Unit 6 -- One rocket personally designed, built (no kits) and used in unit or display related to work done. Judges may use the back of the form for more comments.

**Judging Element 1:** 4-H e-Record: Complete means that everything has been filled out. Not complete means that there is something missing and needs a comment as to what is missing or why it is not complete. Project will be evaluated on the quality of information completed in e-record (25 percent) and quality of exhibit (75 percent).

Criteria	Complete	Not Complete	Comments
<b>E-Record</b>			
Record Cover			
Project Goals			
What 4-H projects are you taking this year?			
What activities helped you learn the skills for the project? (workshops, project meetings, classes, contests, etc.)			
What leadership development experiences did you participate in?			
Citizenship/Community Service in 4-H			
Demonstrations/Presentations/Speeches			
Project Expense/Return on Investment			
Goal Evaluation			
Project Photos			
Story			

Criteria	Yes	No	Comments
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#### Judging Element 2: 4-H Model Rocket Information

Rockets built information				
Rockets launched information				
Colored picture/skill level title included for Units 1-4 and plans/blueprints included for Unit 6				
Completed questions for Units 3, 4 and 6 in manual				

Criteria	E	G	F	N/I	Comments
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#### Judging Element 3: 4-H Model Rocketry Exhibit

N/I = Needs Improvement - must have comments

General model construction and quality of display					
Rocket displayed vertically by rod no taller than the rocket. Stationary base does not exceed 12"x12" wide and 1" thick.					
Finish paint system					
Decals – tight and straight					
Fin alignment					
Air foiling, filling sealing and smoothness of fins					
Reinforcing fillet on fins and launch lug					
Recovery system compete and in place					

E = Excellent G = Good F = Fair N/I = Needs Improvement

An equal access and equal opportunity University. <https://col.st/lI0t3>

Revised 2024