Model Rocketry Record

All Units

COLORADO STATE UNIVERSITY EXTENSION

2026-2027

Project:	**Name:**
Unit Number and/or Title:	**4-H Club:**
Year in this Project: (include current year)	**County:**
Age Group (check one): ❒ Junior (8-10) ❒ Intermediate (11-13) ❒ Senior (14-18)	
Birthdate: (mm/dd/yy)	
4-H Age: (As of December 31 of current 4-H year)	

Project and exhibit guidelines for each project are listed in the State Fair Exhibit Requirements available on the web at Colorado4h.org

I declare that the information in this book is correct, and all 4-H requirements have been completed to the best of my knowledge. ***(This should be signed at the end of the project.)***

Member's Signature	date
Leader's Signature	date
Parent/Guardian Signature	date

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Project Goals

(***To be completed at the first meeting or at the beginning of the 4-H year.***)

Identifying goals and how you are going to reach those goals is important to help you become more skilled and knowledgeable about your project. Personal goals are statements that indicate what you want to achieve or improve upon. You might begin by asking yourself, "What do I want to accomplish this year by taking this project?" Answering that question will help you identify your annual personal goal(s). Once you decide on a goal, then you need to plan a "To Do" list. You might think of this "To Do" list as those things you can learn or do to help you reach that specific goal. ***Remember to use complete sentences.**

In the space provided below, **Junior members must record at least one project goal. Intermediates – at least two goals, and Seniors – at least three goals.** For each goal listed, members must record at least three "To Do" items that would help them to accomplish that goal. If you have more than three goals, insert additional copies of this page as needed.

For example, a Junior member taking a woodworking project might write:
Goal 1: Learn to sand and finish a wood piece.
"To Do" list: 1) Learn to operate and maintain block sander. 2) Observe a knowledgeable woodworker in action. 3) Visit a furniture factory to see how sanding and finishing is done. 4) Tell my parents that I want to do my own work in preparing my project for exhibit.

Goal 1:
"To Do" list to reach the goal:
Goal 2:
"To Do" list to reach the goal:
Goal 3:
"To Do" list to reach the goal:

How I Participate in 4-H!

Categories of Participation	Total This Year	Description/Project Title
What 4-H projects are you taking this year?		
What activities helped you learn the skills for this project? (project meetings, workshops, classes, contests, etc.)		
What leadership development experiences did you participate in? (club/district/state/officer, committee chair, LDC, CLC, YouthFest, State Conference, Jr./Teen leader, pledge leader, etc.)		

4-H	Date	Hours	Activity/Title	Location
Citizenship/ Community Service				
Demonstrations/ Presentations/ Speeches		N/A		
		N/A		
		N/A		

Project Expense and Income/Value

Expenses: ***Juniors only****, figure the cost of the specific ingredients and materials used for your final exhibit item or display board. Label the item "Exhibit" or "Board". You can add a more specific name.* ***Intermediates/Seniors****, list items* ***purchased*** *this year for your project, such as tools, ingredients, class fees, etc. (More pages can be added if needed.)*

Item	Project Expenses
	$
	$
	$
	$
TOTALS	$
Income or Value: ***Intermediates/Seniors Only*** *1. List practice items you made-like practice rockets, a display base, streamers--and estimate the value by comparing it to a similar item you could buy. 2. Record the value of your exhibit item by comparing it to a similar item you could buy.* ***Display boards have no value.*** *3. Record the amount of money you received for any items you* ***sold*** *as Income.*	**Income or Value**
	$
	$
	$
TOTALS	$

Return on Investment

Intermediate and Senior Members

Every day we make decisions about where to spend our time and money and what activities we want to continue. Ask yourself: How did I benefit from this project? What knowledge and skills did I gain from the project? Did I enjoy it? Was it worth the expense? Could I spend money more wisely the next time? Is it worth doing again? Do I want to learn more?

1. What knowledge and skills did you learn that you can use again?

2. How could you use your new skills to save money or to make money?

3. If you made a product to sell, how would you decide a price for your product?

Model Rocketry Information

1) List of rocket models with skill levels built in this project year. _____

_____

2) Listing of “payloads” launched in this project (other than recovery devices). _____

_____

Exhibit Model Name: _____

Skill Level: _____

Rocket is from: (circle one) Stock Kit Self designed & built (Unit 6 only)

Rocket Power is: (circle one) Single Stage Multi-Stage Cluster

Fuselage type is: (circle one) Single Tube Glider: Rear Engine | Front Engine | Canard

Engine Information
Engine Code: _____
Label Color: _____
Type of recovery system: _____

Rocket Launch Information
For all rockets launched during your project, complete the information below (launching exhibit rocket is not required):

Number of times successfully launched	
Type of launch pad used	
Electrical system used	
Tracking method used if applicable	
Observer’s distance from rocket	
Altitude achieved	
Did you have any special problems, before, during, and after launching?	
What did you do to overcome the problems you encountered?	

Goal Evaluation - How Did You Do?

Look back at the goals you listed on page two at the beginning of the year. How did you do? Did you meet the goals that you set for yourself on page two? List your goals below. Using a scale from 5 to 1, rate how you feel you did on each goal. Also, give a short explanation of why you think you deserve the rating you gave yourself. If you created more than three goals, insert additional copies of this page. ***Remember to use complete sentences.**

"How Did You Do?" Rating Scale

Extremely Satisfied	Somewhat Satisfied	Neutral	Somewhat Dissatisfied	Extremely Dissatisfied
5	**4**	**3**	**2**	**1**

Goal 1:
Rate how you did (Circle): 5 4 3 2 1
Explanation:

Goal 2:
Rate how you did (Circle): 5 4 3 2 1
Explanation:

Goal 3:
Rate how you did (Circle): 5 4 3 2 1
Explanation:

Photographs from your 4-H Project

A minimum of four pictures with a descriptive caption for each is required. Additional photos can be added. Pictures must be project specific.

4-H Story

Length and Format Guidelines

You can type or hand-write your story. If you hand-write the story, use pencil or ink on lined white notebook paper.

If a computer is used to write the story, use plain white paper with no smaller than 12-point font.

Leave wide enough margins so the story can be read if inserted into a report cover.

Limit your story to a maximum of two (2) pages.

Story can be single or double-spaced as long as it does not exceed two pages.

Younger members may want to double-space their story so you can see what you are writing.

Be sure to use proper grammar and sentence structure.

Edit your story when finished. Check your spelling.

Have someone else read your story.

The following questions may help you in composing a story specifically related to your project:

Why did you choose this project?

What would you do differently if you were to try it again?

What skills have you learned in the program?

Have your projects grown in size and scope?

Were any adults or other 4-H members especially helpful to you? How?

Has 4-H helped you become a better leader and citizen?

What has being a 4-H member meant to you?