

ROCKETRY

Dept 102 Sec R

1. Review General Rules.
2. 4-Hers must be currently enrolled in the 4-H Rocketry program.
3. Each exhibitor may enter two rockets per class in their division, which were constructed during current 4-H year. Each rocket must have been flown. Each rocket must be able to stand freely by itself or be supported on a stand or rail limited to an 8 X 8" square, 3/4" thick with the exception of display rocket class. Wooden or metal support rods must not extend past the tip of the nose cone. Support rods must remain in the upright position. Do not angle. No model may be submitted on a launch pad.
4. A report must accompany each rocket that is entered. The report must be limited to the 4-H Rocket Exhibit Information Form, which is glued to a 10 X 13' envelope. (Copy of form can be obtained at the County Extension Office)
5. Plans (or a photocopy) must be placed inside the envelope. This includes original design rockets. IF a rocket kit has been modified structurally, notations need to be given indicating the changes made. One or more photographs of the rocket at the launch site are required. Photographs showing the rocket at the moment of ignition are preferred. Photographs should be mounted to one side of an 8 ½ x 11" page(s) there are to be at least one page of photos and no more than 5 pages of photos.
6. Exhibit should be uniformly painted, smooth finished, have decals smoothly applied and be properly constructed according to plans.
7. Rockets with factory made fin assemblies and pre-finished rockets requiring no painting may enter the pre-assembled rocket class, but not eligible for state fair. Only Junior Division may enter this class.
8. Engines and Igniters are not permitted with the exhibits.
9. Models may not be judged based on their paint scheme, with the exception of rockets that fit the definition of a "scale model". These "scale models" may be judged based on the paint scheme. All other rockets may deviate from the suggested paint scheme, allowing the 4-Her to display maximum creativity in the finishing of their rocket. Under no circumstances is the weight given to the paint scheme to be sufficient enough, by itself, to move the model from one ribbon placing to another.
10. Flight damage is to be documented by the participant. The judging of flight damage is to be secondary to all other aspects of the model and only then may it even be considered. However under no circumstances may flight damage be grounds for disqualification.
11. Exhibitors will be responsible for their own rocket at the scheduled contest launch & will agree to the rules posted at the contest.
12. Angles of fins must fall within a (+) or (-) 2 degree variation.
13. Any 4-Her over age of 9 (as of January 1 of the current year) receiving a purple ribbon is eligible to exhibit at the Kansas State Fair.

Division A – Junior (7-8)

Not eligible for the State Fair

- 2099 – Prefinished rocket with no-painting and fixed fins.
- 2100 - Rockets made from a kit, include plans
- 2101 - Factory rocket kit, pre-assembled materials

2102 - Rocket designed by exhibitor, not merely a modification of an existing rocket kit. Exhibitor must provide original drawing and plans

2103 - Rockets made from 2-Liter bottles. Will be displayed at fair and launched as part of competitive launch

Division B – Intermediate (9-13)

2104 - Rockets made from a kit, include plans

2105 - B Scale Model Rockets made from a kit, include plans

2106 - Rocket designed by exhibitor, not merely a modification of an existing rocket kit. Exhibitor must provide original drawings and plans

2107 - Rockets made from 2-liter bottles. Will be displayed at fair and launched as part of competitive launch

Division C – Senior (14 and over)

2108 - Rockets made from a kit, include plans

2109 B Scale Model Rockets made from a kit, include plans

2110 - Rocket designed by exhibitor, not merely a modification of an existing rocket kit. Exhibitor must provide original drawings and plans

2111 - Rockets made from 2-liter bottles. Will be displayed at fair and launched as part of competitive launch

2112 - Rocket built by two or more individuals comprised of juniors, Intermediates or seniors or any combination. This rocket can be a kit or original design

Champion and Reserve Champion in Each Division, Juniors, Intermediate and Seniors

Grand Champion and Reserve Champion Rocketry

4-H Exhibition Launch

2113 - An exhibit must have been entered in one of the previous classes. Any rocket may be used in the event, however, the rocket must meet above class requirements. Engines used in rocket must be type recommended by rocket manufacturers. No modifications to install engine larger than those recommended by manufacturer will be allowed.