

4-H ROCKET FLY DAY CONTEST

Sunday, August 1, 2021

Chuck Schumacher, Superintendent

Contest date: SUNDAY, August 1, 2021

Time: Registration/Check-in 7am
Launch begins at 7:30am sharp!

Location: Fairgrounds pasture, east of Ag Building.

Criteria--Contest will include the following:

Written exam
Parts Identification
Rocket Launching and Safety

Following is a description of the events for the rocket fly day contest.

Written Examination

The purpose of the written examination is to determine the contestant understands of model rocketry design, construction, and operation. The questions will be based on the information found in the Colorado 4-H model rocketry literature.

The question formats will be true/false and multiple choice.

For the senior division, the source material will include knowledge and skills associated with rockets up to and including level 6. For the junior division, knowledge and skill levels will include levels one through three model rockets. The senior division will require a greater depth of knowledge for success.

Parts Identification and Function

Contestants will demonstrate their knowledge of 1) model rocket parts and related equipment and 2) their function (senior division only). Before model rockets can be constructed and launched successfully by youth, they must know and understand the function of the rocket parts.

Ten to 20 model rocket parts will be provided for identification and description of its function. Each participant will complete the Parts ID component individually.

Rocket Fly Day Contest Rules:

Exhibitors must fly a rocket pertaining to the skill level in which they are enrolled in.

Rockets in units 1-4 **must** be checked in with color panel (picture) from kit which indicates engine size, or catalog with proof of skill level and recommended first flight engine. Unit 6 must state the size of the first flight engine at check-in.

Level 4 rocketeers may use level IV or V rockets.

Rockets **must** be launched with FIRST FLIGHT ENGINES ONLY.

Rocketry members are asked to bring their own rocket. Each contestant will be required to launch their rocket twice (time and weather permitting).

Launching equipment will be set up. Members are to supply rocket, engines, igniters, parachutes, and wading. A field box is advisable.

Event will be judged on construction, flight stability, range safety, chute deployment and landing. Rockets **must** be painted.

UNIT 1

Class 669	UNIT 1 – Level 1	Juniors
	Rocket with Balsa Wood Fins	
Class 670	UNIT 1 – Level 1	Seniors
	Rocket with Balsa Wood Fins	

UNIT 2

Class 671	UNIT 2 – Level 2	Juniors
	Rocket with Balsa Wood Fins	
Class 672	UNIT 2 – Level 2	Seniors
	Rocket with Balsa Wood Fins	

For Units 3-6 —finished fins of any type.

UNIT 3

Class 673	UNIT 3 – Level 3	Juniors
Class 674	UNIT 3 – Level 3	Seniors

UNIT 4

Class 675	UNIT 4 – Level 4	Juniors
Class 676	UNIT 4 – Level 4	Seniors

UNIT 6

Class 677	UNIT 6 – Level 6	Juniors
Class 678	UNIT 6 – Level 6	Seniors