

Launch your Custom Rocket

Have you ever build, launched, and recovered a model rocket? Rocketry is a fun, exciting activity for Patrols and Troops. At Fall Camporee, your Patrol can compete for the **BEST CUSTOM ROCKET!**

Patrols or Units who will to compete in the Custom Rock Launch will be able to build and enter a custom rocket (C or smaller motor). Rockets should be prepared prior to the Camporee.

Participants should bring their own rocket launch pad/system (unless you decide not to launch).

If Scouts bring their own rocket(s), the rocket should be built prior to arrival at the launch site and they must provide their own appropriate class A, B, or C rocket engine.



Judging Criteria

I. Rocket Presentation

- A. Overall Rocket Appearance _____/20
- B. Innovation Design / Complexity _____/20
- C. Total Flight Time _____/35

1 pt for each second of flight above 45 seconds

Total _____/75

II. Scout Presentation

- A. Clean Hands/Fingernails _____/10
- B. Uniform* _____/10
- C. Pride/Scout Spirit / Story* _____/10
- D. Photos/Display(typed neatly/easy to read) _____/5

Rocket Launch Rules

Remember that only adults are allowed to handle the engines. Ensure that you review the rocket kit instructions and select the recommended engine size. Watch this video for a very good briefing on prepping rockets prior to launch: <https://youtu.be/hC6evC1N05c>.

Rocket Launch Safety The safety of our youth, volunteers, staff, and employees is an important part of the Scouting experience. Only adults are allowed to handle or load rocket motors. Adults should always closely supervise ALL rocketry building, launching, and recovery activities.

[National Association of Rocketry \(NAR\) Safety Code](#) and other safety guidelines will be followed:

- Launch safety – countdowns, 15-foot safety circle
- Launchers – End of launch rod must be above eye level.
- **Motors.** I will use only certified, commercially-made model rocket motors, and will not tamper with these motors or use them for any purposes except those recommended by the manufacturer.

- Launch site – 400-foot open area required for a type C engine; monitor wind and dry grass conditions
- Every rocket should be safety inspected prior to launch.
- If a rocket misfires or does not launch, be sure to wait a minimum of 60 seconds before approaching it.
- Lightning, winds, or any adverse weather should immediately stop the launch.
- Recovery safety – Do not attempt recovery from power lines, tall trees, etc.
- In case of inclement weather, the launch will be rescheduled. BSA Guide to Safe Scouting policies must be followed.