Attention Scout Leaders – Spring Camporee 2025 Information

The Camporee committee has been busy planning the Spring Camporee with a Space Exploring theme. Here is some important information for you and your scouts.

1) While we will be covering most of the requirements for the Space Exploration Merit Badge we would request that each unit define if and how you would ensure that the requirements for the merit badge are completed within the unit. If your unit needs assistance please contact Tom DeMarais or Tim Tofil of the camporee committee.

2) The afternoon event for the camporee will be a mass model rocket launch. We are planning a minimum of 150 launches starting at 1:30pm in the large field by the parking lot and running until all Scouts have had the opportunity to launch and recover their rocket at least once.

3) For each 2 scouts attending the camporee you will be provided with a model rocket kit to build and launch. Additional rockets plus the rocket engine for the first launch can be ordered through the Council for $12.00 each. We have rockets at various levels of complexity based on ability and interest of Scouts.

4) Since it is recommended that you allow 3 hours for the glue to dry before launching we will provide an option for Scouts to receive the rockets ahead of time and bring to the camporee fully assembled.

5) If you have scouts registered on line for the Camporee by March 24th these kits could be delivered to your units on April 1st at a pick up point defined by each district.

6) If there is an issue with rain or high winds on Saturday afternoon that prevent launching the rockets we will plan to be available on Sunday morning or if that doesn't work we will schedule a backup launch day – date TBD at the Camporee.

7) We are requesting that adults from each unit help staff the stations in the morning. We will have equipment and materials at the stations but in order to keep the group size small and engaging we will need as many adults as possible to help deliver the content. Please see the following pages for a general overview of what will be discussed/presented at each stations. If you have leaders or parents or acquaintances that would have knowledge of these topics we would welcome their assistance in finalizing the program content to make it as interesting and informative as possible.

Camporee Program

8 requirements for Merit Badge – material for 6 of the 8 to be covered to some level in the stations. Materials to support requirements 2 and 8 will be available for those interested in the MB to use in the afternoon free time.

Station 1: The purpose of space exploration and current status:

a. Historical reasons
b. Immediate goals in terms of specific knowledge
c. Benefits related to Earth resources, technology, and new products
d. International relations and cooperation.
e. History of Scouting and connections to Space program.
f. Design an inhabited base located within our solar system, such as Titan, asteroids, or other locations that humans might want to explore in person. Make drawings or a model of your base. In your design, consider and plan for the following:
    i. Source of energy
    ii. How it will be constructed
    iii. Life-support system
    iv. Purpose and function.

Station 2: Discuss and demonstrate each of the following:

(a) The law of action-reaction
(b) How rocket engines work
(c) How satellites stay in orbit
(d) How satellite pictures of Earth and pictures of other planets are made and transmitted.

Station 3: Space Missions

(a) Discuss a robotic space exploration mission and a historic crewed mission. Tell about each mission's major discoveries, its importance, and what was learned from it about the planets, moons, or regions of space explored.

(b) Design a robotic mission to another planet, moon, comet, or asteroid that will return samples of its surface to Earth. Name the planet, moon, comet, or asteroid your spacecraft will visit. Show how your design will cope with the conditions of the environments of the planet, moon, comet, or asteroid.

(c) Describe the purpose, operation, and components of ONE of the following:
(a) Space shuttle or any other crewed orbital vehicle, whether government-owned (U.S. or foreign) or commercial
(b) International Space Station.

Station 4: Space Knowledge and teamwork games

a) Space Jepoardy game – knowledge of rocket and space
b) Space Themed games for Scouts to learn and play.

SPRING CAMPOREE 2025 SCHEDULE FOR THE WEEKEND

Friday:

5:30pm – Unit Checkin opens

7:00pm – 8:30pm Friday night leader social – will have grills going, ***bring your own meat to cook and a dish to pass.*** Hot coals, Potatoes, and Hot Coffee provided. Meet at the Cub Scout Pavillion

8:30pm - Adult Leader Meeting

9:00-9:30 – **SPL Cracker barrel** – Meet outside Cub Scout Pavillion to go over schedule for weekend.

10:30pm Lites out.

Saturday:

6:30 Reville and Troop Breakfast.

7:00am Staff Breakfast Meeting – All staff to be present.

8:30am – Morning Assembly and Flag Raising

8:50 – Morning Stations

Noon – 1:30pm Patrol /Troop Lunchtime

1:30 – 4:00 Rocket Launch Time (Each District assigned a 1 hr time slot)
Open time with water rockets and MB independent study.

4:15 Flag Retirement
SPL Campsite Inspections by District
Patrol/Troop Dinner time

7:30pm – Interfaith Service and Closing Campfire

10:30pm Lites out

Sunday: Troop time – checkout with District Leadership – Additional Rocket Launches if needed.

Merit Badge Requirements – Space Exploration

1. **Tell the purpose of space exploration and include the following:**

- (a) Historical reasons
- (b) Immediate goals in terms of specific knowledge
- (c) Benefits related to Earth resources, technology, and new products
- (d) International relations and cooperation.

2. Design a collector's card, with a picture on the front and information on the back, about your favorite space pioneer. Share your card and discuss four other space pioneers with your counselor.

3. Build, launch, and recover a model rocket.* Make a second launch to accomplish a specific objective. (Rocket must be built to meet the safety code of the National Association of Rocketry. See the "Model Rocketry" chapter of this pamphlet.) Identify and explain the following rocket parts: NOTE: *If local laws prohibit launching model rockets, do the following activity: Make a model of a NASA rocket. Explain the functions of the parts. Give the history of the rocket.

- (a) Body tube
- (b) Engine mount
- (c) Fins
- (d) Igniter
- (e) Launch lug
- (f) Nose cone
- (g) Payload
- (h) Recovery system
- (i) Rocket engine.

4. Discuss and demonstrate each of the following:

- (a) The law of action-reaction
- (b) How rocket engines work
- (c) How satellites stay in orbit
- (d) How satellite pictures of Earth and pictures of other planets are made and transmitted.

5. Do TWO of the following:

- (a) Discuss with your counselor a robotic space exploration mission and a historic crewed mission. Tell about each mission's major discoveries, its importance, and what was learned from it about the planets, moons, or regions of space explored.
- (b) Using articles from the internet, photographs and text, create a blog, website, or slide show about a current planetary mission or use magazine photographs, news clippings, and articles from the internet to make a scrapbook about a current planetary mission.
- (c) Design a robotic mission to another planet, moon, comet, or asteroid that will return samples of its surface to Earth. Name the planet, moon, comet, or asteroid your spacecraft will visit. Show how your design will cope with the conditions of the environments of the planet, moon, comet, or asteroid.

6. Describe the purpose, operation, and components of ONE of the following:

- (a) Space shuttle or any other crewed orbital vehicle, whether government-owned (U.S. or foreign) or commercial
- (b) International Space Station.

7. Design an inhabited base located within our solar system, such as Titan, asteroids, or other locations that humans might want to explore in person. Make drawings or a model of your base. In your design, consider and plan for the following:

- (a) Source of energy
- (b) How it will be constructed
- (c) Life-support system
- (d) Purpose and function.

8. Discuss with your counselor two possible careers in space exploration that interest you. Find out the qualifications, education, and preparation required and discuss the major responsibilities of those positions.