



Merit Badge Information Sheet [MBIS]

November 14, 2026

Merit Badge:	Space Exploration
Counselor Name:	Joni Mimnaugh
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Preferred Method of Contact:	When you email, put your name on the subject header. If you can, send all the documents in one email. To comply with Youth Protection guidelines, scouts should copy a leader or parent on all email communication with the counselor.
Prerequisites: <i>list all requirements which need to be completed in advance</i>	3. Model Rocketry - Build, launch, and recover a model rocket, and conduct a second launch for a specific objective (or build a NASA rocket model with an explanation of its history and parts if launching is prohibited). [1, 2] - Identify and explain nine rocket parts (body tube, engine mount, fins, igniter, launch lug, nose cone, payload, recovery system, and rocket engine). [1] We will absolutely need a signed note from a Scout Leader, parent, or Rocket Launching Club approved by the Forest Preserve District of Du Page County. They must detail the date and location of the launch. They must detail the objective (purpose) of the second launch. 8. Careers in Space Exploration - Research and discuss a chosen space-related profession regarding its training, duties, and outlook. [1, 2]
Class Work: <i>list all requirements which will be completed in class</i>	1. Purpose of Space Exploration Tell the purpose of space exploration, including: [1, 2] - Historical reasons - Immediate goals in terms of specific knowledge - Benefits related to Earth resources, technology, and new products - International relations and cooperation [1, 2] 2. Space Pioneers - Design a collector's card for your favorite space pioneer and discuss them alongside four other pioneers with your counselor. [1, 2] 4. Space Exploration Science Discuss and demonstrate the law of action-reaction, how rocket engines and orbiting satellites work, and how planetary/Earth images are transmitted. [1] 5. Space Missions (Complete TWO of the following) [1] Option A: Discuss a robotic mission and a historic crewed mission with your counselor. Option B: Create a digital or physical media project about a current planetary mission. Option C: Design a sample-return robotic mission to another celestial body. [1, 2, 3] 6. Crewed Orbital Vehicles or International Space Station



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Describe the purpose and operation of a crewed orbital vehicle or the International Space Station. [1]

7. Design a Space Base

Design an inhabited solar system base detailing energy sources, construction, life support, and purpose. [1, 2]

Use of “Online” Workbook:

Not supported – the site that provided them is no longer updating requirements.

Merit Badge Booklet:

REQUIRED Physical Copy or Download, requirements found at <https://www.scouting.org/merit-badges/space-exploration/>

Number of Sessions needed:
each session is 1 hour 25 minutes

2 Sessions 3 hours

Maximum Class Size:

10

Notes and/or Comments: