

Space Exploration Merit Badge Pre-Work

Space Exploration is a 4 hour class. Scouts should bring a snack and plenty of water. Please no red liquids. Scouts will be spending the some of the session outside. Please have them wear sunscreen and insect repellent.

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What to bring:

- Blue card, pen, and pencil
- Appropriate clothing, including close-toed shoes
- Snack and water
- Pre-work

Pre-work:

5. Do 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.
 - c. Design a robotic mission to another planet or moon that will return samples of its surface to Earth. Name the planet or moon your spacecraft will visit. Show how your design will cope with the conditions of the planet's or moon's environment.
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

If you have any questions or concerns, feel free to contact Emily Cole at emily.cole@fairfaxcounty.gov, or call (703) 941-1065.