



The Badge Archive

Artemis Launch Challenge

Fun Patch Program Information Packet Disclaimer

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Artemis Launch Challenge

This program is designed to be hands-on and engaging, following the spirit of official NASA student challenges and Girl Scout Space Science badges.

The Origin of "Artemis"

NASA chose the name Artemis to honor the history of the Apollo program while looking toward the future. In Greek mythology, Artemis is the twin sister of Apollo and the Goddess of the Moon.

By naming the mission Artemis, NASA highlights the goal of landing the first woman and the first person of color on the lunar surface, showing that space is for everyone. You can find more details on this naming tradition from the official [NASA Artemis Mission Page](https://www.nasa.gov/mission/apollo/apollo11/apollo11factsheet.cfm).

Artemis Career Connections

Launching a rocket requires more than just astronauts. Here are a few careers scouts might find exciting:

- **Aerospace Engineer:** The "builders" who design the SLS rocket and Orion capsule.
- **Space Photographer:** They capture the incredible images of the launch and the Moon.
- **Mission Controller:** The "voices" on the ground who guide the crew safely home.
- **Space Chef:** Scientists who develop tasty, nutritious meals that don't float away!
- **Astro-Geologist:** Experts who study Moon rocks to understand the history of our solar system.

See more careers at <https://tinyurl.com/42pcp5fd>

How to "Earn" Your Fun Patch

To earn an Artemis II fun patch, scouts should complete activities based on their age level.

Scout Level	Grade Range	Requirements
Daisies / Brownies	K-3	Complete 4 activities total (1 for each requirement).
Juniors / Cadettes	4-8	Complete 6 activities total (At least 1 for each requirement).
Seniors / Ambassadors	9-12	Complete 8 activities total (At least 1 for each requirement).





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The Artemis Activity List

Requirement 1: Moon & Mythology (Learning & Creativity)

Understand the history or science of the Moon through storytelling and artistic recreation.

Possible Activities:

- **Moon Phases Snack:** Use sandwich cookies to recreate the phases of the moon to mirror how the Artemis II crew will observe the moon during their flyby. (See <https://tinyurl.com/2zb6e4jr>)
- **The Twin's Tale:** Read a story about the Goddess Artemis and draw a picture showing her and her brother Apollo in the night sky. (See <https://tinyurl.com/5abad9hm>)
- **Lunar Landscape:** Use aluminum foil to create a "crinkled" moon surface on black paper. Add "craters" by pressing bottle caps into the foil. (See <https://tinyurl.com/55bpvrhh>)

Requirement 2: Engineering (Hands-on Fun)

Act as NASA engineers by building models and testing physics to solve flight and landing challenges.

Possible Activities:

- **SLS Rocket Challenge:** Build a model of the Space Launch System (SLS) using recycled household items like paper towel rolls and cardboard or rolled paper. (See <https://tinyurl.com/p479rc78>)
- **Target Splashdown:** Design a "re-entry capsule" for an egg or a toy figure using a plastic cup and a paper parachute. Can you land it on a target "ocean"? (See <https://tinyurl.com/yc28tz6h>)
- **Moon Rover Challenge:** Build and test a simple rover using recycled materials, then improve the design to help it move better. (See <https://tinyurl.com/yd7rrup7>)

Requirement 3: Mission Operations (Real-World Connection)

Step into the roles of the experts at NASA to experience the technical precision required for deep-space exploration.

Possible Activities:

- **Experience "Ground Control":** Read or perform a NASA-style launch script to learn how a real terminal countdown works during an Artemis-type mission. (See <https://tinyurl.com/6pcv8uce>)
- **Space Kitchen:** Conduct a "Space Safe" food test using the three rules for safe food in zero gravity environments. (See <https://tinyurl.com/yc4vtdam>)
- **Career Investigation:** Explore several NASA careers and pick Three. Explain why you would enjoy each and how you might get the training needed for each. (See <https://tinyurl.com/42pcp5fd>)

Requirement 4: Observation (Watching the Skies)

Become citizen scientists by observing the night sky.

Possible Activities:

- **Artemis Launch Party:** Host a viewing party for the Artemis II launch (or watch a replay) and make a "Launch Day" pennant or flag.
- **Science Journal:** Create an observation journal of some kind. Like tracking the moon's appearance, noting the shape and how high it appears in the sky compared to your house.
- **SciStarter Project:** Pick a SciStarter project that relates to the moon and complete the project instructions. Remember to submit the data you collect! (See <https://tinyurl.com/39w7a64p>)