



Armstrong Air & Space Museum

Opportunities for scouts at the Armstrong Air & Space Museum

The staff at the Armstrong Air and Space Museum are happy to offer its facilities for morning/afternoon and overnight excursions to scouts of all ages. The museum offers flexible programming that can be tailored to the individual needs of a group. Troops interested in a morning/afternoon or overnight program are encouraged to contact the museum with prospective dates on which to hold these museum visits.

Choose Your Overnight Adventure

\$40 per Scout

Adults: \$15

Minimum of 15 Scouts

Space Exploration Overnight Adventure

\$50 per Scout

Adults: \$15

Minimum of 15 Scouts

Morning/Afternoon Visit

\$5 per Scout

Call museum for current adult rates

Minimum of 10 Scouts

Choose Your Overnight Adventure visit consists of tour, movie, up to three activities, museum mission patch; late snack, modern gallery/simulators, and a Bob Evans breakfast the next day.

Space Exploration Overnight Adventure is tailored to bring your Scouts a step closer to their Space Exploration Badge. This visit consists of tour, movie, 4 activities, museum patch, late snack, modern gallery/simulators, a rocket launch, and a Bob Evans breakfast the next day.

Morning/Afternoon visit consists of our, movie, modern gallery/simulators, and up to two activities.

Enhance your scout experiences:

Extra activities: \$1 addition per scout

Scavenger hunt and museum pencil: \$1 addition per scout

Call Museum for restaurant menus and options.

Please refer to the back of this sheet to see our classroom lesson offerings.



Space Exploration Overnight Adventure for Girl Scouts

1. **Action Refraction:** Learn how a telescope works through the bending of light. Using laser pointers we will bend light with various materials.
2. **Solar System Step Out:** Scouts will get an idea of how far apart the planets are by taking steps between each planet while learning cool planet facts.
3. **Discovering Constellations:** Learn how to identify and find constellations in the night sky. They will make a star finder and a constellation out of toothpicks and marshmallows.
4. **Rocketry Workshop:** In this hands on workshop Scouts learn about rocketry and propulsion, and get to build their own model rockets.
5. **Model Rocket Launch:** Watch a model rocket launch the next morning.

Space Exploration Overnight Adventure for Scouts BSA

1. **Lunar Base Creations:** Scouts learn what it takes to live on another planet. Using recyclable materials, students must work in groups to create a habitable planet.
2. **Space Shuttle Activity:** Learn the workings of the Space Shuttle and what it accomplished during its missions. Make a wooden glider and experiment with wing placement to discover what position works the best.
3. **Lunar Rovers:** Learn about the history of robotics in space focusing on Curiosity. Scouts will make a balloon powered rover and take core samples using candy and straws.
4. **Rocketry Workshop:** In this hands on workshop Scouts learn about rocketry and propulsion, and get to build their own model rockets.
5. **Model Rocket Launch:** Watch a model rocket launch the next morning.



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Choose Your Overnight Adventure Activities

Choose up to 3 activities

1. **Moon Phase Demo with Oreo Cookies (Grades PreK-4)** – Students learn about the 8 moon phases and then make their own moon phases with *Oreo* cookies.
2. **Mission Nutrition (Grades K-5)** – Student discuss *MyPlate* and space-appropriate food, then pack a balanced days' worth of food for an astronaut. Real astronaut food is taste-tested.
3. **Sounds of Space (Grades K-8)** – This activity allows students to hear the sounds in space and learn about sound waves. They will get interactive with *BoomWhackers* to develop a team song to present to their fellow peers.
4. **Black Holes (Grades 2-6)** – Using balloons and aluminum foil, children will learn how black holes are formed and the basic physical concepts behind them.
5. **Tippy Towers (Grades 2-10)** – Students learn about the engineering process, then practice the process by constructing a load bearing tower. Which teams' tower can hold the most weight?
6. **Parachute Egg Drop (Grades 3-12)** – Students work in groups to create a device that will land safely without breaking the egg inside, using only the materials given. Students learn about astronaut and spacecraft safety.
7. **Lollipop Seasons and Tides (Grades 4-7)** – Participants learn about how the moon impacts tides here on earth in an interactive demo. Afterward they learn about seasons and changes using *Play-doh* and lollipops.
8. **Heavy Lift Rocket Activity (Grades 4-12)** – Students work in groups to create a balloon powered rocket. The objective is to lift any number of paper clips from the floor to the ceiling, using only the materials you are given.