



## 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.

### **Traditional Overnight visit:**

\$32 per scout  
Adults: \$15 per  
Minimum of 15 Scouts

### **Morning/Afternoon visit:**

\$5 per scout  
Call museum for current adult rates  
Minimum of 10 Scouts

### **Astronaut Training Overnight visit:**

\$42 per scout  
Adults: \$15 per adult  
Minimum of 15 Scouts  
**Max number 32 scouts**

**Traditional Overnight visit consists of tour, movie, up to three activities, museum mission patch; late snack, modern gallery/simulators, and breakfast the next day.**

**Astronaut Training overnight visit consists of tour, movie, up to four activities, astronaut simulation with Apollo style spacesuits, museum mission patch, late snack, modern gallery/simulators, and breakfast the next day.**

**Morning/Afternoon visit consists of tour, 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  
Dinner the night before (excludes late night snack) or lunch the following day: \$9 per person  
Call Museum for restaurant menus and options

*Please refer to the back of this sheet to see our classroom lesson offerings. Also, call the museum if you are working on a badge requirement. Our education staff would be more than happy to create activities based around the badge you are working on!*



### **Activities Currently Available with Materials in the Classroom**

**1. Model rockets (grades 1-12)**—Cost is \$12 per student (to build their own rocket) or for a flat fee of \$10 per group, watch a model rocket launch outside the museum (if wanting to have students build their own rockets, there needs to be at least 4 weeks prior notice)

**2. Mission nutrition (grades k-5)**—Students discuss *MyPlate* and space-appropriate food, then pack a balanced days' worth of food for an astronaut. Real astronaut food is taste-tested.

**3. 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.

**4. Mission patch creation (grades PreK-4)**—Students learn about the importance of a mission patch for each of the Mercury, Gemini, Apollo and Shuttle missions. Students then get to design their own mission patch.

**5. 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.

**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 how difficult it was to land Curiosity on Mars.

**7. Sounds of Space (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.

**8. Lollipop seasons and tides (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.

**9. Solar system simulations (grades K-8)** —This activity takes place outside (may also take place inside if there is room available). Students get an idea of how far apart the planets are by taking steps between each planet.

**10. Lunar base creation (grades 3-12)**—Students learn what it takes to live on another planet. Using recyclable materials, students must work in groups to create a habitable planet.

**11. Paper airplanes (grades PreK-12)**—Students learn about the 4 forces of flight and get to create their own paper airplanes, copter or glider to test flightworthiness.



**12. Lunar biospheres (grades 4-12)** -- students create a biosphere that contains plants and living creatures. They monitor and study over days and determine how abiotic and biotic factors react with one another within the biosphere and compare to life on Earth. (If completing this activity we need at least a 2 week notice for activity to be completed).

**13. 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?

**14. Conductors, Insulators, and Circuits (grades 3-8)** -- Students learn about what makes a good conductor and insulator and test different objects. Students create and build a circuit from this.

15. Do not see an activity you have in mind? Call and ask for the Education Department. We are willing to take your vision and create an activity to suit your needs.