



NASA: Academy of Space Explorers Camp

Grades 1 to 5

From Earth's atmosphere to the outer reaches of our solar system, this hands-on Mad Science program sends campers on a quest for galactic exploration! Comets, planets, stars, constellations, eclipses, asteroids and more are all waiting to be discovered. Learn about space travel, build a model rocket and participate in a rocket launch.

Earth and Beyond (Atmosphere and Planets & Moons)

Journey to the edge of our solar system and explore the planets along the way. Learn how the planets stack up, discover how the planet's atmospheres are different. Closer to home, explore earth's atmosphere. Make a sunset and create a lunar and solar eclipse. Learn how scientists use gravity to slingshot space probes deep into outer space with your *Gravity Assisted Launcher*. Take home a *Meteorological Station* to monitor daily changes in three elements of Earth's weather.

Astronaut-in-Training (Space Technology and Living in Space)

Prepare yourself for an exciting space mission! Learn about everyday objects that were originally designed for use in space. Guide a laser beam through a laser maze. Use teamwork to complete an important space mission, building a model space station. Take home a *Stereoscopic Viewer* as you use the unique viewing cards to explore the surfaces of different bodies in the solar system and learn about the challenges of working in space while sewing a tear in the space station's solar panel with your *Spacewalk Mission* project.

Space Race (Rocket Science and Space Travel)

Explore the science involved in model rocket construction as you build your own *Skyblazer II Rocket™* to take home! Learn about the principles of propulsion when you race a balloon rocket. Learn how to prepare a model rocket for flight and take part in a rocket launch. Build your own *Shuttle Copter* to fly!

Eye on the Sky (Space Phenomena and Sun & Stars)

Probe the mysteries of meteors and comets. Learn about the ingredients of comets when one is made right before your eyes. Learn how to tell the difference between stars, planets and satellites. Assemble your own *Space Telescope* to bring faraway objects into focus. Watch star dust burn, and journey through the galaxy as you investigate the life cycle of stars! Make a star chart that will help you recognize many stars and constellations.

Flying Objects (Advanced Rocket Building and Fantastic Fliers) (only in 5 day camps)

Continue learning the fundamentals of rocket flight and aerodynamics. Construct a model rocket from everyday materials, not from a kit. Closer to Earth, discover the wonders of flight as you build and test-fly paper airplanes and a glider while learning about the four forces that affect flight.

Revised 1/2/2018