

(SFA) Space & Flight Academy (ages 6-12)

From our Earth's atmosphere to the outer reaches of our solar system, this hands-on program sends budding Mad Scientists on a quest for exploration. Learn about the four forces of flight, build your own kite, plane and rocket. Get ready to have a blast.

(LNC) Go For Launch

How is it possible to get rockets and satellites into space? Campers will spend this camp day studying aerodynamics, transportation systems and engine staging. We will launch various rockets including our own water rocket. We will explore how helicopters fly and investigate if we can make our own small helicopter.

(UPP) Up, Up & Away

This camp day will allow campers to explore the role that wind and the movement of air plays on simple flying devices such as kites, hot air balloons and parachutes. We will study Bernoulli's principal and use it to create a hovercraft. Children will experiment with solar bags, and parachutes and build their own kites and windsocks during this hands-on look at early flight.

(RKT) Rockin' Rockets

Campers will learn the fundamentals of rocketry throughout this day including the parts of a rocket, the stages of rocket flight and how Newton's third law applies to a rocket traveling to space. The children will build their own Mad Science Rocket to take home. Campers will experiment with different rocket types including balloon rockets, stomp rockets, and water rockets. While airplanes rely on Bernoulli's Principal for lift, rockets rely on thrust which we will explore during this day of hands-on activities.

(MIS) Mission Control

Campers will engage in the process of getting a rocket into space. It is a day of exploration of the communication required to plan, execute, and evaluate a space mission. We will investigate the requirements of building a rocket and the systems necessary to get it into space. We will experiment with roll, pitch and yaw. Get ready as we plan our own Mad Science mission.

(WRT) The Wright Stuff

Children will explore the fundamentals of aerodynamics in this hands-on program about how things fly. From the basic principles of flight to building airplanes, testing them in wind tunnels, to hovercraft and balloon copter building, children will understand what makes things fly and how different types of aircraft fly. Campers will take home a rubber band-powered airplane, various paper airplane designs, balloon copters, boomerangs and mini Frisbees™.