

# Flight Academy

From the earliest flying machines to the first rocket flights, this hands-on program will allow campers to build many different flying devices. Junior test pilots will launch a variety of flying machines including; balloon copters, a hovercraft, paper airplanes, kites, Frisbees, parachutes, a solar bag, solid fuel rockets and more! You are cleared for takeoff! **(Ages 7 - 11)**

Our camp includes everything your child needs during our camp day. However, if you wish to continue your child's interest in rocket launches outside our camp, you will need to purchase a launch kit at a hobby shop.

These are only a sample of some of the activities that we will be doing each day. The topics will not necessarily follow this order. However, each of these topics will be included at some point in the camp.



**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, children will understand what makes things fly and how different types of aircraft fly. Learn all about the amazing Wright brothers as you build your own rubber band powered plane.

**Wings and Things** - From hovercraft and balloon copter building, to balloon copters, boomerangs and mini Frisbees, discover that everything that flies doesn't have wings. Glide on a pillow of air when you take a ride on the Mad Science Hovercraft, and finish off demonstrating your plane building techniques.

**Up, Up & Away!** – This program will explore the role that wind, heat, and the movement of air plays on simple flying devices. Children will experiment with solar bags, parachutes and more. Design, build and fly your own kite using ancient flying machines as your guide. Discover why kites have tails. Have a radical resistance race with your fellow campers.

**Lift and Drag** - Come back to earth when we look at the role parachutes play in flight. See a hot air balloon take off, design your own flight themes shirt to keep, and experiment with other flying devices.

**Rocket Scientists** - Our aspiring rocket scientists master rocket mechanics and are cleared for launch! Campers build and launch Estes model engine powered rockets to explore the physics of flight. Leave camp with your own rocket.