



Mobile Aviation Program

“Where fun-filled memories are teachable moments that shape the character and the soul.”

It's not just about flying... it's about giving them wings and helping them to touch the sky!



Aviation has the remarkable ability to excite students about learning new concepts. Kids who participate in innovative STEM programs tend to improve their academic performance, are less likely to get in trouble, are more likely to graduate high school and are more likely to pursue higher learning after graduation. Through the introduction of

technology, we create an instant thirst for higher learning. By erasing the lines between work and play, Math and Science become pieces of an interesting puzzle. For more than 30 years, Character Camp has been ***“Building Better Kids”*** through innovative partnerships with schools, churches, youth organizations and Corporate America.

Our Aviation course employs the construction and analysis of model airplanes to introduce students to flight mechanics and physics in a very non-threatening way.



As students develop a love for aviation they often show dramatic improvements in math and science as they apply these principles to the exciting world of aviation.

This course explores the history of flight, unveils the mysteries of aircraft development and the fundamentals of aerodynamics. Students explore the evolution of aircraft and their designs, engines, instruments, and aircraft systems. Students will also learn about airport systems, airspace, air navigation, radio communication procedures, and federal aviation regulations. Aircraft maintenance, meteorology, air traffic control, and a variety of aviation and aerospace career options are also discussed. The course includes significant historical events in aviation and aerospace development as well as a look at modern technology and industry progress.

The use of radio controlled models introduces students to aircraft anatomy and aircraft control. Students gain a deeper understanding of flight dynamics and further expand their aviation vocabulary in an interesting setting. Interacting with radio controlled planes allows students to develop an appreciation for how atmospheric conditions



impact the world of aviation. They will learn in fun and practical ways the effects of physical properties such as thrust, lift, drag, drift, elevation, attitude, trim and etcetera.



In the safety of a realistic flight simulator (using Lockheed Martin software), students gain the skills needed to pilot an aircraft from pre-flight checkouts to navigating through airport ground control to taxiing down the runway to soaring over the clouds and returning with a perfectly smooth landing. Increased confidence, self-esteem, leadership and maturity are just natural outcomes of the course.

Upon successful completion of this course, students may request to take the FAA private pilot PRACTICE examination through us. This paves the way for students to be successful in an FAA accredited program and to pursue a career in aviation.

Our goal is to expose students to the world of aviation while allowing them to explore the many aspects of the industry and career opportunities. This course allows students to truly consider if a career in aviation is something they would desire to pursue.

The course complexity, level of curriculum detail, testing and lab work are adjusted based on length of curriculum and student ages.



With larger crowds we have two optional Outdoor Adventure Stations. Adventure Station 1 allows children to assemble Styrofoam airplanes and begin learning the parts of an airplane and how they work to make flight possible. Adventure Station 2 introduces children to the aircraft yoke and pedals assemblies to learn what the controls do in preparation for using them in the actual flight simulator.



Mobile Aviation Lab Features

- **Safety Systems:** Lighted entry/exit, fire extinguisher, smoke detector, rear emergency exit, emergency egress lighting and signage
- Wheelchair ramp access
- Authentic Lockheed Martin (Aircraft Manufacturer) flight simulation software
- Air conditioning and heating
- Projector/projector screen
- Sound System
- Self-contained Honda ultra-quiet generator package
- Future Pilot Wings awarded upon Course Completion
- High illumination classroom lighting
- Student friendly decor
- Pilot flight tools
- Audio/Video training curriculum
- Instructor-led written & lecture training curriculum
- Course completion certificates
- Outdoor adventure stations available
- Fully insured, liability and medical
- Two child-protection certified instructors, background screened (criminal and sex offense).