

TAI NM Summer Camps

Objectives



Gen. Lloyd W. "Fig" Newton Chapter
Tuskegee Airmen, Inc.
Albuquerque, New Mexico

Introduce students ages 12-17 to Aerospace Science, Technological Concepts, and Related Career fields with the goal of inspiring them to pursue vital STEM careers

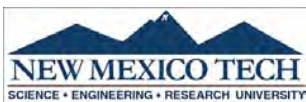
Aviation Camp ^{8th Year}

- 5 day All Aspect Aviation Intensive



Col Alvin Drew Space Camp ^{3rd Year}

- 7 day "Off Station," Space Centric Adventure



Summer Aviation Camp

- Five Day All Aspect Aviation Intensive
- Interdisciplinary project-based learning
 - Real-world application of basic science concepts
- Challenging goals with multiple opportunities to show and develop learning
- Extensive aviation community partnerships
 - Magdalena School District, Military, FAA



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8th Year! Returning Measurable STEM Education Impacts



Summer Aviation Camp

Program Content

- Aviation “Ground School”
 - Testable material provides measurable results – Pre/Post
- Simulators
- Hands on Aircraft Tours
- Aviation Career Tours
- Graduation Flights at the Controls



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Student Aerospace Subject Matter Pretest Scores Improved by 64%





Col Alvin Drew Summer Space Camp

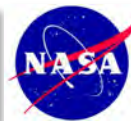


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- 7 day "Off Station," follow On to Aviation Camp
- Space centric project-based learning
- Immersive & Rigorous academic instruction
- Hands-on/ minds-on reinforcement via experiments
- Leverages unique and growing New Mexico resources



3rd Year! Leveraging strong relationships for increased STEM education impacts



Summer Space Camp

Program Content



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- Design-Build-Fly High Power Rocket
 - CAD of rocket builds real world engineering experience
 - HD cameras + Altimeter Subsystems for post flight analysis
- Broad subject matter inspirational tours & hands on activities
 - Celestial body investigation via StarDome software
 - Magdalena Ridge Observatory & Langmuir sites
 - National Radio Astronomy Observatory and Very Large Array
 - NASA/Range Control Facilities, Museum of Space History
- Video Teleconference w/ SpaceX *
- "Touch Space," high altitude balloon launch *

