

Fact Sheet



Peach State STARBASE is a premier educational program, federally funded, administered by the Department of Defense, and sponsored by the Georgia National Guard. At STARBASE students participate in challenging activities in Science, Technology, Engineering, Art, and Math (STEAM). They have the opportunity to interact with military personnel inside and outside of the classroom, exploring careers and observing STEAM applications in the "real world." The program is housed at the Clay National Guard Center in Marietta, Georgia.

Peach State STARBASE provides exciting, dynamic and STEAM lessons and activities, primarily to at-risk student in public Title 1 schools in the North Atlanta metro area.

STARBASE offers a positive, proven approach to building excitement and interest in STEAM disciplines. This knowledge is important to our nation's future because:

- ***In 2022, 36% of fourth-grade students performed at or above the NAEP Proficient level on the mathematics assessment.***
- ***The percentage of ACT-tested graduates meeting the ACT STEM Benchmark in 2019 was 20%.***
- ***Over the next 10 years, the Bureau of Labor Statistics (BLS) expects STEM jobs to grow by 10.8%, far outpacing the 2.8% projected growth across all occupations.***
- ***Students who attend DoD STARBASE improve their attitudes about and their confidence in STEAM.***
- ***Median annual wages for STEM occupations were \$95,420, compared to 40,120 for non-STEM occupations.***
- ***Computer occupations make up nearly 45% of STEM employment.***
- ***Only 20% of US high school graduates are prepared for college-level coursework in STEM majors.***
- ***Students who attend DoD STARBASE Academies increase their knowledge and skills in STEAM.***

STARBASE engages students through an inquiry-based curriculum with an emphasis on "hands-on, mind-on" experiential activities. Lessons include Newton's Laws, Bernoulli's Principle, nanotechnology, navigation and mapping. A special emphasis is given to CAD engineering and 3D printing. Math is embedded throughout the curriculum and students use metric measurement, estimation, calculation, geometry and data analysis to solve problems. Cooperative and communication skills are stressed as students work together to explore, explain, elaborate and evaluate concepts. Georgia Army and Air National Guard volunteers apply abstract principles to real world situations by leading tours and demonstrating the use of STEAM in different settings.

Our curriculum includes:

A. Physics:

- Newton's Laws of Motion
- Fluid Mechanics and Aerodynamics

B. Chemistry: Building Blocks of Matter

- Physical and Chemical Changes
- Atmospheric Properties

C. Technology:

- Flight Simulation
- Navigation and Mapping
- Nanotechnology

D. Engineering/Art Design:

- Engineering Design Process
- 3-D Computer Aided Design

E. Mathematics Operations and Applications:

- Numbers and Number Relationships
- Geometry
- Data Analysis

F. STEM Careers:

- STEM Careers on Military Facilities
- Engineering careers in rocketry, computer science

Participation

- 5th grade students (10- or 11-year-old) are eligible to participate in STARBASE. A student may only participate once.
- All forms will be brought the first day of STARBASE; this is the student's entry ticket.
- Students should leave all phones and any other such devices at school.

Academy Hours and Location

Academy hours are 9:30 - 1:30.

This is the Clay National Guard side of the base from Atlanta Road. **Do not attempt to enter the Dobbins Air Reserve gate.**

STARBASE address is:
Clay National Guard Center
119 Nimitz Drive Bldg. 53
Marietta, GA 30060

Lunch

Students will need to bring a sack lunch daily. There are no microwave for students or chaperones. A re-fillable water station is available.

Chaperone Required Daily

- A teacher will be required to stay with the group each day to help in the classroom and monitor lunch time.
- Chaperones must complete a teacher responsibility form.
- Chaperones will assist as needed in the classroom.
- Chaperones are not allowed to take photos or videos, except as directed by the Instructors, and shouldn't be on their phones. No siblings or other children not participating in STARBASE may come with the chaperone.

School Contact Responsibilities

- All emailed STARBASE forms will need to be completed by the school contact.
- These forms will need to be completed, signed, and ready for the pre-meeting or brought to STARBASE on the first day of the academy.
- If any items are stricken out or left blank the school application will be rejected and the students will not be allowed to attend STARBASE.
- If a student doesn't have their paperwork signed then they cannot attend STARBASE until it is completed.
- Each attending employee needs to complete the teacher responsibility form.

Internal Field Trip

A scheduled tour is set for Thursday, 10 AM at the hangar with the Blackhawks. The tour lasts around 45 minutes.

If there are further questions regarding our program, please feel free to contact Amy Crandall at: (678) 569-7093 or Amy.crandall@peachstatestarbase.com

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