



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, and Math (STEM). They have the opportunity to interact with military personnel inside and outside of the classroom, exploring careers and observing STEM applications in the "real world." The program is housed at the Clay National Guard Center in Marietta, Georgia.

Peach State STARBASE's Mission

Peach State STARBASE provides exciting, dynamic and STEM 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 STEM disciplines. This knowledge is important to our nation's future because:

- **In the United States less than 10% of graduate degrees are conferred in engineering, mathematics and computer science. This places our country 20TH internationally in terms of graduate degrees in these critical areas.**
- **The rapid pace of technological change, and globalization of the economy, demands that our workforce be highly skilled in science and math.**
- **Less than 1% of current elementary school students will seek advanced education in the sciences.**
- **Students who attend STARBASE Academies increase their knowledge and skills in STEM.**
- **Students who attend STARBASE improve their attitudes about and their confidence in STEM.**

STARBASE engages students through an inquiry-based curriculum with an emphasis on "hands-on, mind-on" experiential activities. Lessons include Newton's Laws and 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 STEM 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:

- Innovations
- Navigation and Mapping
- Nanotechnology
- Flight Simulation

D. Engineering:

- 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
- Personal Investigations

FAQ

Where is Peach State STARBASE?

We are located inside the Clay National Guard Center, directly adjacent to Dobbins ARB. The street address (which does *not* work in GPS devices!) is: 1000 Halsey Ave., Bldg 53, Marietta, GA 30060.

When does STARBASE take place?

STARBASE takes place Monday-Friday 8:30 a.m. to 1:30 p.m. These times may be adjusted, but each class day is five hours long.

How much does it cost to attend STARBASE?

STARBASE does not charge any fees to students or attending schools. The schools (or groups) are responsible for providing lunch and transportation to and from the STARBASE facilities.

Who can attend STARBASE?

Public, private and home-based schools all attend STARBASE, and each fall request academy slots for the following academic year. STARBASE has a capacity of 2,200 students during the school year, and currently has an expressed demand of about 10,000 slots per year. A waiting list is kept and used to seed the following schools years.

*If there are further questions regarding our program please feel free to contact
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