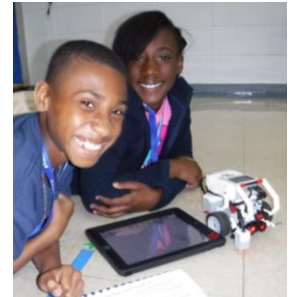


DoD STARBASE is a national science, technology, engineering and mathematics (**STEM**) program in over 60 locations throughout the U.S. Since 1999, **STARBASE Louisiana at Barksdale Air Force Base sponsored by the 307th Bomb Wing of the Air Force Reserve Command, has provided nearly 30,000 fifth through twelfth grade students** experiences in STEM investigations and projects, leading- edge technology and innovative instructional methods, including:

- **An average of 25-hours of exemplary instruction**
- **Rigorous STEM curriculum**
- **Cutting-edge technology**
- **Proven track record** of raised student performance
- **21st Century skills**-critical thinking, creativity, communication, collaboration
- **Scientific literacy**, problem solving, hands-on inquiry, and growth mindset



Goals of STARBASE

- Raise the interest & improve the knowledge & skills of at-risk youth in STEM
- Provide for a highly educated, skilled and innovative American workforce
- Expose students to positive STEM role models from military and civilian communities
- Nurture a winning network of collaborators from education, business and military

STARBASE Louisiana: An Investment in Louisiana's Future

Physics

- Newton's Laws
- Energy



Chemistry

- Atomic and Molecular Structure
- Physical and Chemical Changes
- Properties of Matter



STEM Careers

- STEM work applications
- Personal Investigations

Character Development

- Citizenship and Service Learning

Technology

- Robotic Programming
- Coding
- Circuitry

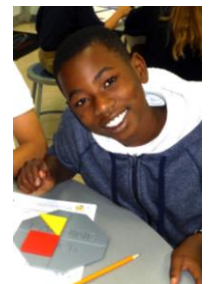


Engineering

- Engineering Design Process
- 3-D Computer-Aided Design and Prototyping

Mathematics Applications

- Number Relationships
- Measurement
- Geometry
- Data Analysis



2.0 Middle/High School Additional Components:

- Professional STEM Mentors
- Multi-year participation options
- Advanced STEM topics and projects: Prototype Manufacturing, Competition Rocketry, Drone Technology



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