

DoD STARBASE –*Building a Stronger America*

DoD STARBASE is a national science, technology, engineering and mathematics (STEM) program in 60 locations throughout the U.S. STARBASE Louisiana's **22,000 area graduates** have experienced STEM content elements and leading edge technology and instructional methods in our **5th grade and middle school programs**. Highlights include:

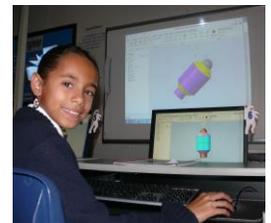


- An average of 25-hours of exemplary instruction
- Rigorous STEM curriculum
- Cutting-edge technology
- Proven track record of raised student performance
- 21st Century skills-critical thinking, creativity, communication, collaboration
- Foundational scientific literacy, problem solving, and hands-on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



Goals of *STARBASE Louisiana*

- 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 found on military installations
- Nurture a winning network of collaborators from education, business and military



STARBASE Louisiana: An Investment in Louisiana's Future

Physics

- Newton's Laws
- Fluid Mechanics
- Aerodynamics



Technology

- Innovations: Robotics
- Navigation & Mapping: Imagery Analysis & GPS Geocaching



Chemistry

- Building Blocks of Matter
- Physical and Chemical Changes
- Atmospheric Properties



Engineering

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

Mathematics Operations and Applications

- Number Relationships
- Measurement
- Geometry
- Data Analysis



STEM Careers

- STEM applications in work settings
- Personal Investigations

Additional 2.0 Middle School Components

- Energy, power, work, circuitry
- Prototype manufacturing
- Competition rocketry
- Professional STEM Mentors

