



167<sup>th</sup> Airlift Wing - 222 Sabre Jet Blvd. – Martinsburg, WV 25405 – Phone (304) 616-5501 Fax (304) 616-5478

[www.dodstarbase.org](http://www.dodstarbase.org)

### About DoD STARBASE:

DoD STARBASE focuses on elementary students, primarily fifth graders. The goal is to motivate them to explore science, technology, engineering, and math (STEM) as they continue their education. The program serves students that are historically under-represented in STEM education. Students who live in inner city or rural locations, those who are socio-economically disadvantaged, low in academic performance, or have a disability are in the target group. The program encourages students to set goals and achieve them.

The program engages students through the inquiry-based curriculum with its "hands-on, minds-on" experiential activities. They study Newton's Laws and Bernoulli's Principle and learn about the wonders of Physics, Chemistry and Robotic Programming. Technology captivates the children as they use the computer aided design program OnShape to bring abstract designs to life using a 3D Printer. Math is embedded throughout the curriculum and students use metric measurement, estimation, calculation, and geometry to solve problems. Teamwork is stressed as they work together to explore, explain, elaborate, and evaluate concepts.

Military volunteers apply abstract principles to real world situations by leading tours and giving lectures on the use of STEM in different settings and careers. Since the academies are located in different branches of the military, this experience is highly varied. Students may discuss how chemical fires are extinguished, learn how injured are transported, explore the cockpit of a C-17, learn how one can survive in the wilderness, or visit security forces to observe and experience what it takes to keep a military installation safe and protected.

The academies work with school districts to support their standards of learning objectives. A teacher whose class attended DoD STARBASE stated, "STARBASE teaches science and math in ways that we wish we had the time, resources, and expertise to do in the regular classroom. It's experiential, exploratory learning with a direct tie to the standards."

**"DoD STARBASE is a great program. It makes math and science exciting and those are the jobs of the future. I did not meet a kid who wasn't just totally fascinated and completely engaged in what they were learning."**

**Margaret Spellings, Secretary of Education (2005-2008)**

### About DoD STARBASE Martinsburg:

STARBASE Martinsburg is a highly interactive enrichment program for both public and private school students. The program provides hands-on experiences in science, mathematics, and technology in a high-tech, aerospace learning environment. Located at the 167<sup>th</sup> Air National Guard in Martinsburg, West Virginia, STARBASE Martinsburg inspires students and helps strengthen their learning through a unique, challenging, and fun academic program. Classes run from 9:00 a.m. until 2:00 p.m. Typically, participating schools attend the program for a total of 5 days. STARBASE has full time instructors who specialize in science, math and technology.

The program is of no cost to parents or schools that participate. Transportation and lunch is provided by the local school system. If your child does not wish to have the packed school lunch, they may bring their own from home. Students who attend STARBASE must have a "Release of Liability" and "Release of Information" signed by their parent or legal guardian. There are currently over 76 STARBASE sites nationwide!

***What an exciting opportunity for your child!***

For more information, please visit our website at:

<https://www.dodstarbase.org> or <https://www.167aw.ang.af.mil>