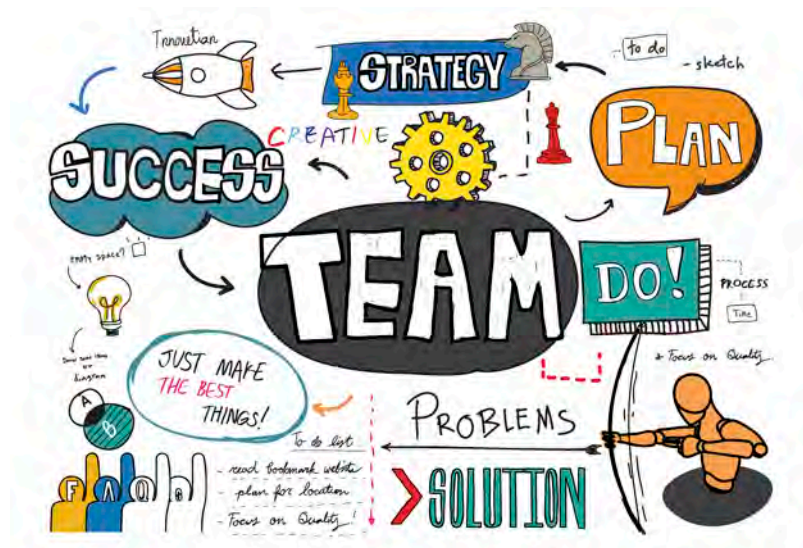


News from the field of the premiere DoD Youth STEM education program.

## Why Do We Team Teach at STARBASE?



Since its inception, team teaching is and has always been a foundational practice at DoD STARBASE. Its aim is to promote diversity and inclusion in every aspect of the program. DoD STARBASE provides equal access to opportunities and resources for students who might otherwise be excluded or marginalized. In order to accomplish these goals, our STARBASE staff need a variety of curriculum and instruction that accommodates all types of learners and learning styles. Team teaching provides the most success in reaching these goals. With two instructors present during all classroom instruction, additional support is readily available for any student that requires assistance.

Team teaching is a vital and unique component of the DoD STARBASE program. Through team teaching, educators become powerful role models for students, encouraging them to work collaboratively and productively. We also team teach so students experience the diversity of two instructors with different strategies, instructional styles, and lesson delivery. Team teaching alleviates the sole responsibility of one person taking charge of all instruction. What would sites do, if that one person was out sick? Through collaboration, all instructors are firmly equipped with the necessary capability, knowledge, and practice of delivering lesson plans.



“We have an opportunity to create the future and decide what that’s like.”  
-- Mae Jemison, American Engineer, Physician, and Former NASA Astronaut

# EXCITING STARBASE UPDATES

- » DoD Funding for STARBASE was increased for FY21 to \$41,170,000.00.
- » After several years of hard work, the updated STARBASE DoDI (1025.07) was issued January 15th, 2021. [Click for link.](#)

Strong team teachers provide seamless instruction for the students no matter who is up in the front of the classroom. Through cooperative learning and team teaching, DoD STARBASE ensures all students are getting various forms of necessary support. Mathematically, having two teachers in the classroom just makes sense. A 1:12 teacher to student ratio leaves far more time for one-on-one interaction between students and STARBASE staff.

Although, educational practices and strategies may vary from program-to-program with regards to team teaching, the core of its importance remains the same. Through instructional collaborations, team members build trust with one another, motivate growth, support the ideals of DoD STARBASE, share responsibility, and ultimately feed the success of all students.

*Note: The revised STARBASE DoDI 1025.07 has been published. ([Click here to read the full document.](#)) Section 3.4 (2) (b) clearly states: Instruction will be provided by either two program instructors, one of whom may also be a deputy director, or a program instructor and an instructor assistant. There must be two STARBASE personnel in one classroom providing team teaching. The ASD(M&RA) will approve exceptions to this policy on a case-by-case basis.*

## 2.0 Chemistry and Physics: A Family Affair



STARBASE Manhattan's 2.0 students and staff enjoyed learning about chemistry and physics with Dr. Bill Scott, retired Fort Hays State College Professor of Chemistry and Physics. "Dr. Bill" gladly agreed to introduce the STARBASE 2.0 students from St. George, Kansas to some amazing chemistry and physics concepts and experiments during the after school 2.0 program. Staff was surprised that Dr. Bill not only volunteered his own time, but he decided to make it a family affair by bringing his son, Brian, and two grandsons, Trey and Jordy, along as volunteers.

The St. George 2.0 sixth grade students enjoyed having Dr. Bill and his family help teach them about chemical changes, making "elephant toothpaste," as well as testing for acids and bases along with a variety of other physics activities. Dr. Bill brought his expertise into the after-school program guiding the students to a new love of science in chemistry and physics. As the lessons ended, it was clear that Dr. Bill not only made a positive impact on the sixth-grade students, but he also had a chance to show his grandsons how his passion and love continues for teaching science, even after retirement.



# South Dakota Volunteer Provides Support and Inspiration to STARBASE Staff and Students



STARBASE Sioux Falls, like many other sites, relies heavily on volunteers to make the program run successfully. Our volunteers fulfill large needs, from driving students to class, delivering lunches, and even providing F-16 tours and presentations; however, there are small volunteer jobs that need to be done that are just as crucial. These jobs are being completed by a variety of people including, perhaps the oldest volunteer in STARBASE history. 102 year old, Doris Duffy, is the mother of Deputy Director, Maywin Thoreson. Doris enjoys keeping busy and doing things for others, so she has helped STARBASE staff and students by counting and bagging graduation medals, putting together dog tags, and restocking supply bags for Eggbert.

Helping a program where her daughter teaches and has a strong tie to aviation is right up Doris's alley. She has a love of airplanes that stems from one of her first jobs. During World War II, Doris worked as a "Rosy the Riveter" on the B-29 Super Fortress at the Glenn L. Martin bomber plant near Omaha. Her job entailed the use of a rivet gun to join two pieces of metal together on the wing of the airplane. While Doris thinks the B-29 is a pretty cool airplane, she is much more impressed by the F-16s, which she has seen up close and personal with her daughter at the Sioux Falls Air National Guard/Joe Foss Field. Being a STARBASE volunteer does have its perks!



## A Call for Participation

Throughout the year, this newsletter will continue to spotlight the achievements, partnerships, and tips of the participants of the DoD STARBASE program. Please share your achievements, success stories, and helpful tips with us at [email@dodstarbase.org](mailto:email@dodstarbase.org).

# Louisiana STARBASE and Youth Challenge Working Together



In November of 2020, students from the Louisiana Youth Challenge Program at Camp Minden and staff from STARBASE Louisiana engaged in a hands-on study of Computer-Aided Design, robotics, chemistry, and a host of other STEM courses.

This was the first time Youth Challenge Program (YCP) students had attended STARBASE Louisiana. Ironically, the COVID-19 pandemic created a unique opportunity. STARBASE, which normally serves students in Caddo and Bossier parishes, had gaps in its instruction schedule due to health concerns and logistical problems brought on by the pandemic.

“When we realized we would not be able to work with the public school students, we started seeking other groups in the area we could help,” explained Laurie Ilgenfritz, the Director at STARBASE Louisiana. “We reached out to the Youth Challenge Program at Camp Minden and it worked out well.”

The YCP students quickly adapted to one of STARBASE’s core tenets: mistakes are simply a path to a solution. The rigorous, hands-on curriculum required students to apply critical thinking and problem-solving skills to demanding scenarios that reward those who learn from mistakes.

“They are seeing that, if they try, they can be successful and if they make a mistake, it is okay as long as they don’t quit,” said Marlene Lindsay, a YCP instructor at Camp Minden. One student, James Harrison, echoed Lindsay’s thoughts on how STARBASE Louisiana approaches the learning paradigm. “Sometimes you have to fail, but the key is to embrace those failures and learn from them,” he said.

Ilgenfritz said plans are being laid to incorporate YCP into STARBASE 2.0, a program that goes out to high school and middle school students to teach advanced STEM concepts.

*Article source below. Click here to see the full transcript of the article.*

<https://www.dvidshub.net/news/385653/starbase-la-national-guard-youth-challenge-program-perfect-match>