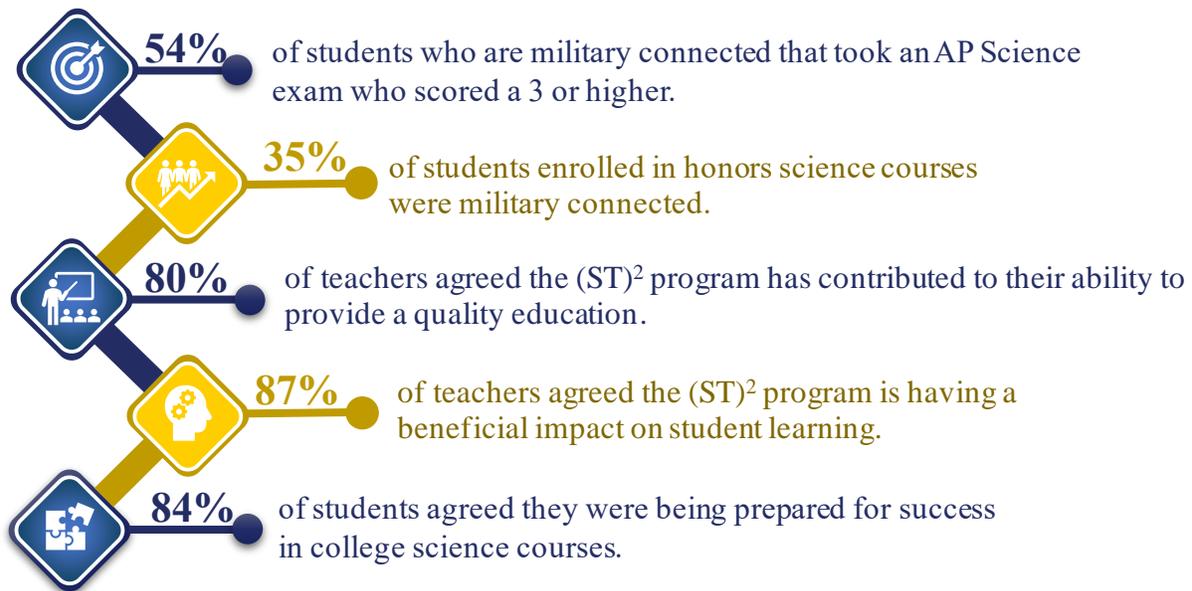


Science Today for Success Tomorrow (ST)²: Year 3 Program Evaluation



Key Evaluation Findings



“I used to never enjoy science class when I was younger, but OTHS has great faculty and challenging, yet rewarding curriculum that has prepared me for my future.” – OTHS Science Student

“I love how we do lots of examples that illustrate each of the concepts that we cover in class. We are also able to do many labs and experiments that can show that the things we are calculating are applicable to the real world.” – OTHS Science Student

“Having the technology from the grant has been essential to my ability to teach during our remote/hybrid portions of the school year.” – OTHS Science Teacher

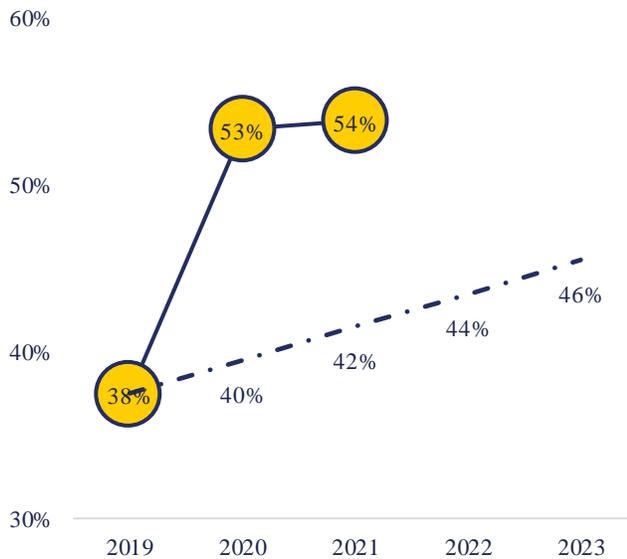


Executive Summary



SMART Goal

The (ST)² Project is ON TRACK. In Spring 2022, 54% of military connected students who took an AP science exam scored a 3 or higher.



SMART Goal

By May 2023, the percentage of military-connected high school science students who score a 3 or higher on the advanced placement (AP) science exams will increase 2% each year over the 2019 baseline.

The (ST)² Project is ON TRACK to meet the SMART Goal.



35% of students enrolled in honors science courses were military connected students.

Honors science courses include AP Biology, AP Chemistry, AP Physics 1, AP Physics 2, freshman Honors Biology and sophomore honors Chemistry.

Students Enrolled

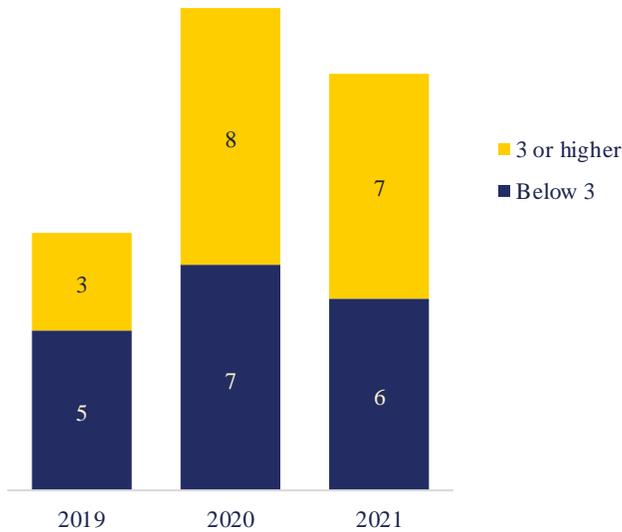
Enrollment in honors science courses has remained consistent.



Course Grades

AP Exam Breakdown

Two fewer students took AP science exams in spring 2021.



Lessons Learned

Despite early concerns about students' participation, OTHS has maintained student involvement in AP exams. Teacher advocacy has played a significant role in student participation.

Average Course Grade

Students in honors science courses average a "B" letter grade (3.44 on 5.0 scale).



Lessons Learned

In addition to AP exam scores, course grades for honors courses are an indicator of the overall impact of the project. For spring 2021, the average GPA of students in honors science courses was slightly lower than in spring 2019. However, students are still at a "B" average.

Strategies

In Class Curriculum/Instruction and Technology Supports

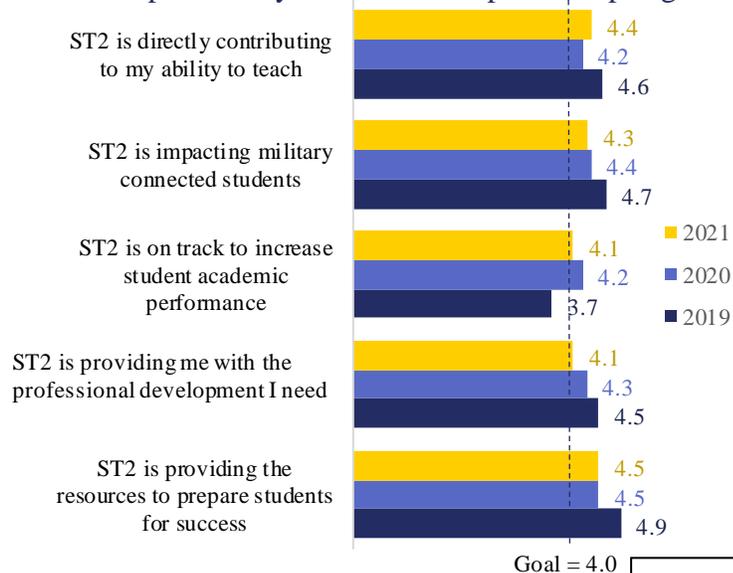
In the spring of 2021, 15 OTHS honors science teachers completed a survey that asked them how the training and equipment impacted their teaching and student performance.



80% of teachers agreed the program has contributed to their ability to teach their students.

Teacher Feedback

In spring 2021, not as many teachers agreed the (ST)² project provided them with the professional development they needed as compared to spring 2019.



87% of teachers think this program is having a beneficial impact on student learning.

Transformative Aspects

Teachers were thankful with how helpful the technology enhancements were for their transition to remote instruction.

Sustainable Practice

93% (14 out of 15) of teachers agreed the program has given them the resources needed to succeed.

Barriers to Success

Teachers opted for 1 on 1 training instead of group professional development activities. In part, to overcome time constraints caused by COVID-19. In part, to provide direct support across multiple content areas. However, this type of professional activity relies on expertise within the department and is not sustainable without additional support for external experts.

During the focus group in the Spring of 2021, teachers expressed extreme exhaustion and frustration around teaching in multiple different modalities throughout the school year. Teachers shared concerns about continuing to teach in multiple modalities in upcoming school year.

Student Survey Results

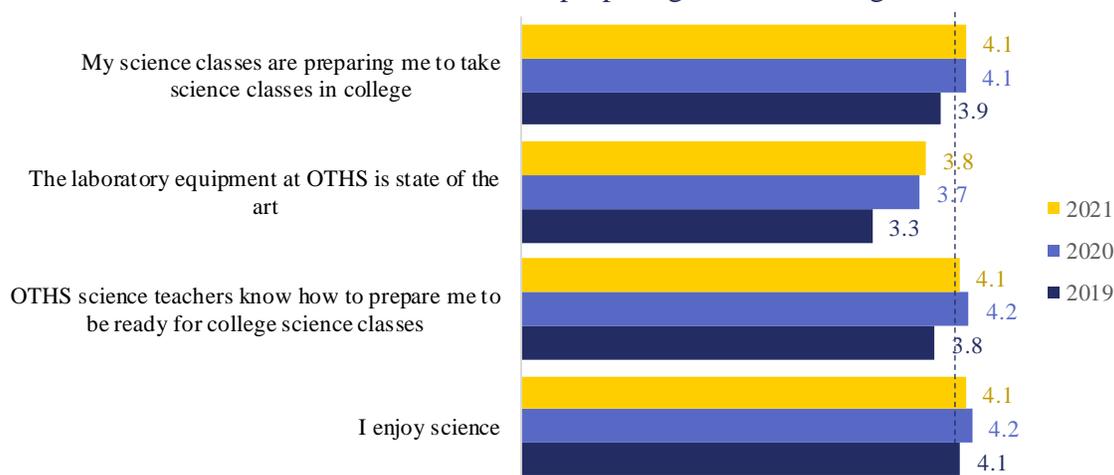


In Spring 2021, 140 honors science students completed a survey about their OTHS science course(s).

84% of students agreed their OTHS science course(s) are preparing them for college.

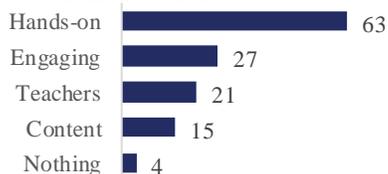
Student Feedback

Since spring 2019, more students have agreed that the laboratory equipment at OTHS is state of the art and that science classes are preparing them for college.



What did you like about science classes at OTHS?

48% of students liked the Hands-on nature of their science class.



Please share any additional comments.

19% of students had a positive comment about OTHS science classes.



How can OTHS science classes be improved?

18% of students said OTHS science classes can be improved with more hands-on opportunities.

