

# The Calculus Project

## at Milton Public Schools

*Finding Success in Mathematics*



# Our Mission

The mission of The Calculus Project at Milton Public Schools is to support students who may be historically absent from high-level mathematics classes on a trajectory toward success in calculus in their senior year.

The program is based on a model developed by Dr. Adrian Mims, former dean of students at Brookline High School. The five-year program was created to address disparities in mathematics achievement among the school's students.

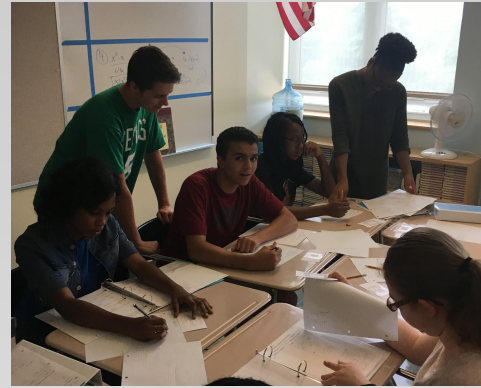


# Goals for Students

1. Become proficient in the concepts and practices of the high-level mathematics they will study during the upcoming school year
2. Increase intellectual confidence in mathematics
3. Develop critical thinking skills and learn to apply mathematical concepts
4. Learn to collaborate with peers on challenging problems
5. Meet with STEM professionals of color and begin to envision their own potential success in STEM careers
6. Become a leader in our school community



# About



- The Calculus Project in Milton has been running since the 2014-2015 school year.
- 70% of the 1st cohort has enrolled in honors or advanced placement calculus.
- Approximately 100 students participate in The Calculus Project.
- Our target audience includes African American, Hispanic, Mixed-Race and Low-Income students but we accept students of all backgrounds into the program.



# A Partnership

***Students*** - fostering a growth mindset, building a community inside and outside of the classroom

***Parents/Guardians*** - encouragement to participate in summer enrichment, tutoring program, recruiting other families

***Teachers*** - developing relationships with students, learning about growth mindset in mathematics, communicating with families



# Teachers

Ms. Capasso, Grade 6, Pierce

Ms. Pompilus, Grade 7, Pierce

Ms. Shapiro, District Math Coach

Mr. Moray, Milton High

Ms. Ritten, Milton High

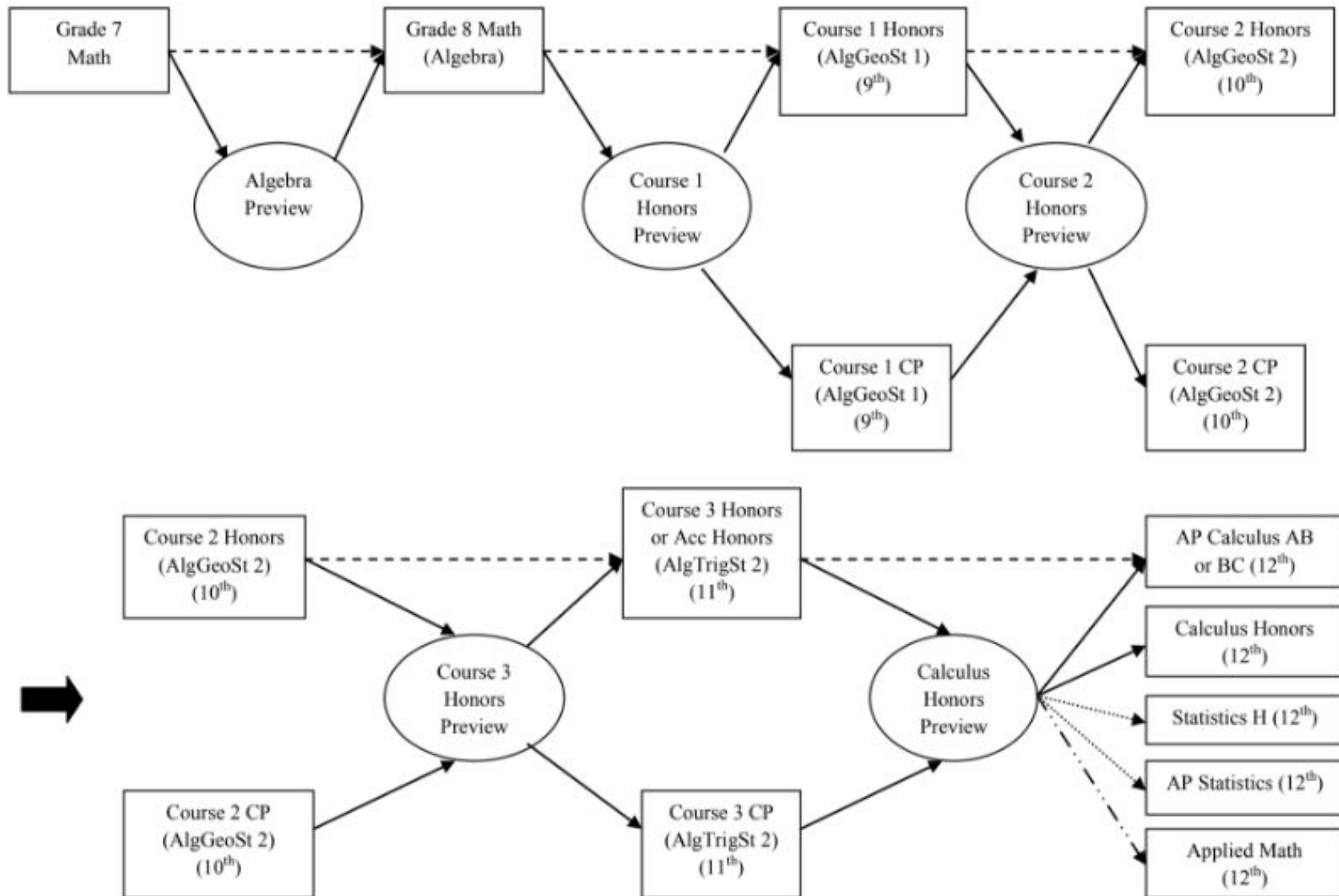
Ms. Meunier, Milton High

Ms. Losi, Milton High

Ms. Kreuzer, K-12 Mathematics Director



# TCP Roadmap



# Summer Mathematics Enrichment Program 2018

July 9 - 26

Monday - Thursday

9:00 AM - 1:00 PM

Milton High School

Registration: <https://goo.gl/forms/TxQf6JQRRT8MGohk1>





# Summer Mathematics Enrichment Program

- Building a community of math learners
- Maintain standing in honors courses
- Jump to the honors level
- Preview important topics for the next course
- Have fun doing math!



# School-year Tutoring Center

- Three days a week (Tue-Thu)
- 2:30 - 4:00 PM
- Math Teachers
- MHS Math Office (Room 109)
- No cost for TCP students!



# Past Field Trips



DEILAB - Innovation Lab, LEGO Engineering

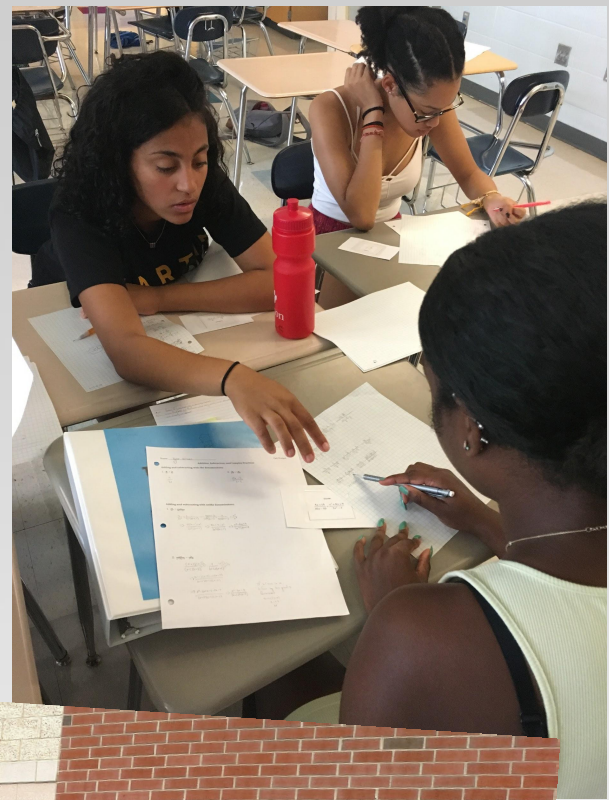
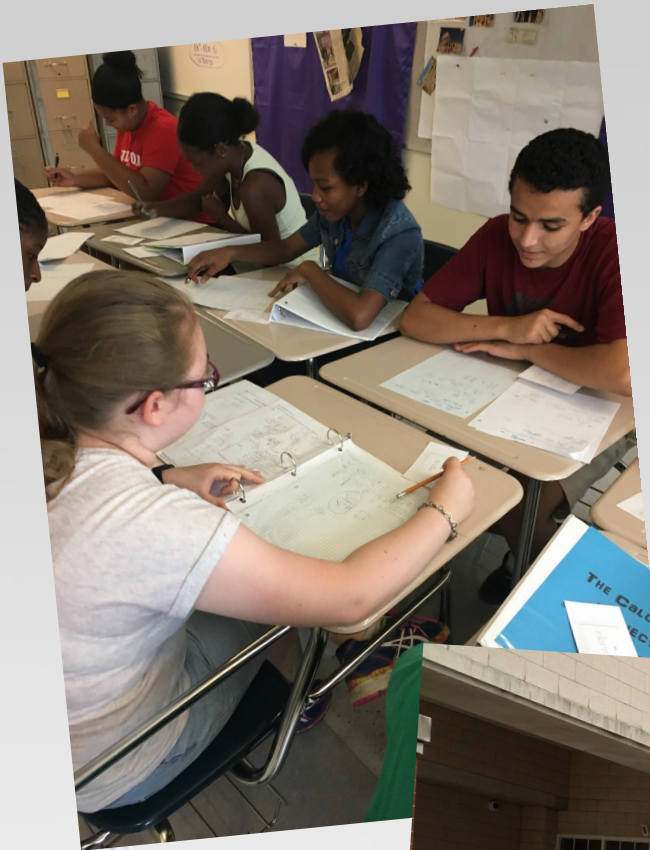
*Hidden Figures*

Northeastern Center for STEM Education

Raytheon (Andover)







# What our students say...

“The Calculus Project has helped me grow as a math student and helped me be a confident mathematician.”

“I’ve been coming to the Calculus Project since 7th grade and I love it each year!”

“The Calculus Project is a safe space.”

“It’s helped me gain confidence in my math abilities.”

“We are mathematically proven to have fun!”

“The Calculus Project has helped me grow and I managed to move up from CP to Honors math. It’s a lot of fun and is a great learning environment outside of school.”



# Questions?

*Thank you for coming!*

