

Syosset High School PTSA Curriculum Council: Mathematics

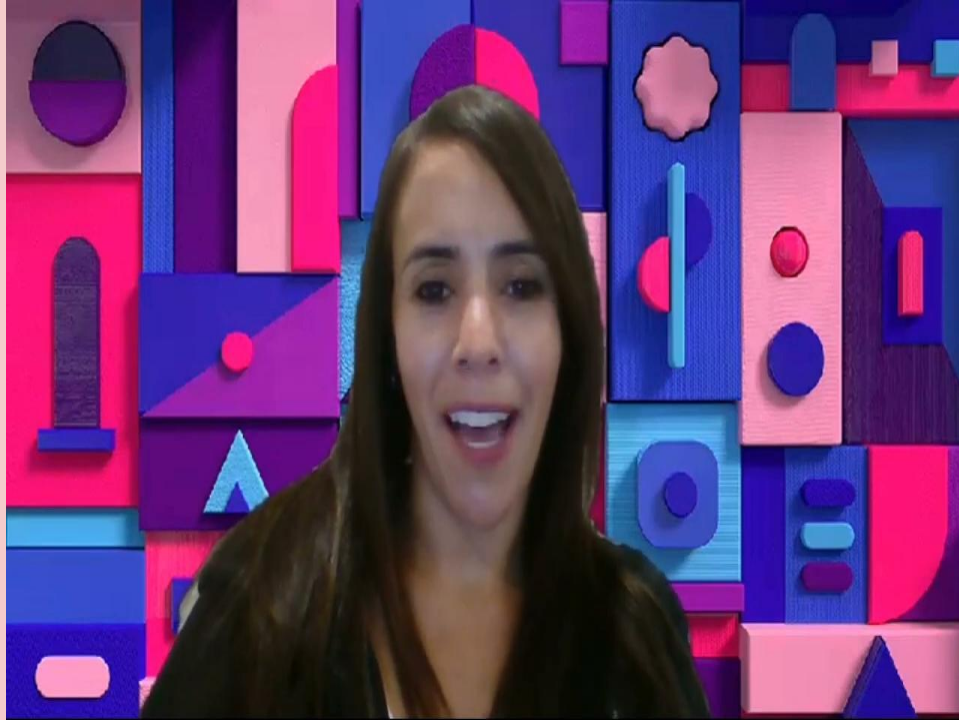
October 20, 2021

Dr. John Genova
Coordinator of Mathematics, K-12

Goals of this presentation

- **Provide** information about our department's course of study.
- **Facilitate** the sharing of perspectives about our department's courses and programs.
- **Answer** any questions that you may have about Syosset mathematics.
 - *The chat will be opened after the presentation so that we can answer questions.*
 - *Please hold all questions until the end so that we can provide you a complete picture of the program!*

Syosset Math teachers are excited to be back!



Syosset CSD Mission

The mission of the Syosset Central School District is to prepare students to thrive in both the future we imagine and one which may evolve in ways yet to be envisioned.

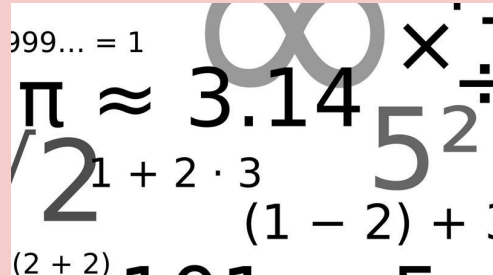


Syosset Mathematics Why

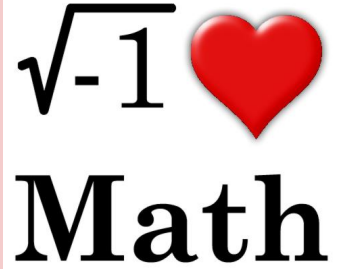
The Syosset Mathematics department believes that our students can all learn to think critically, solve problems, and see the beauty of mathematics.

Our team is passionate about the subject and deeply committed to fostering enthusiasm for mathematics in our students.

The faculty is inspired to shape student learning and believes Syosset students will see mathematics as enjoyable, logical, and appropriately challenging within our diverse course offerings.

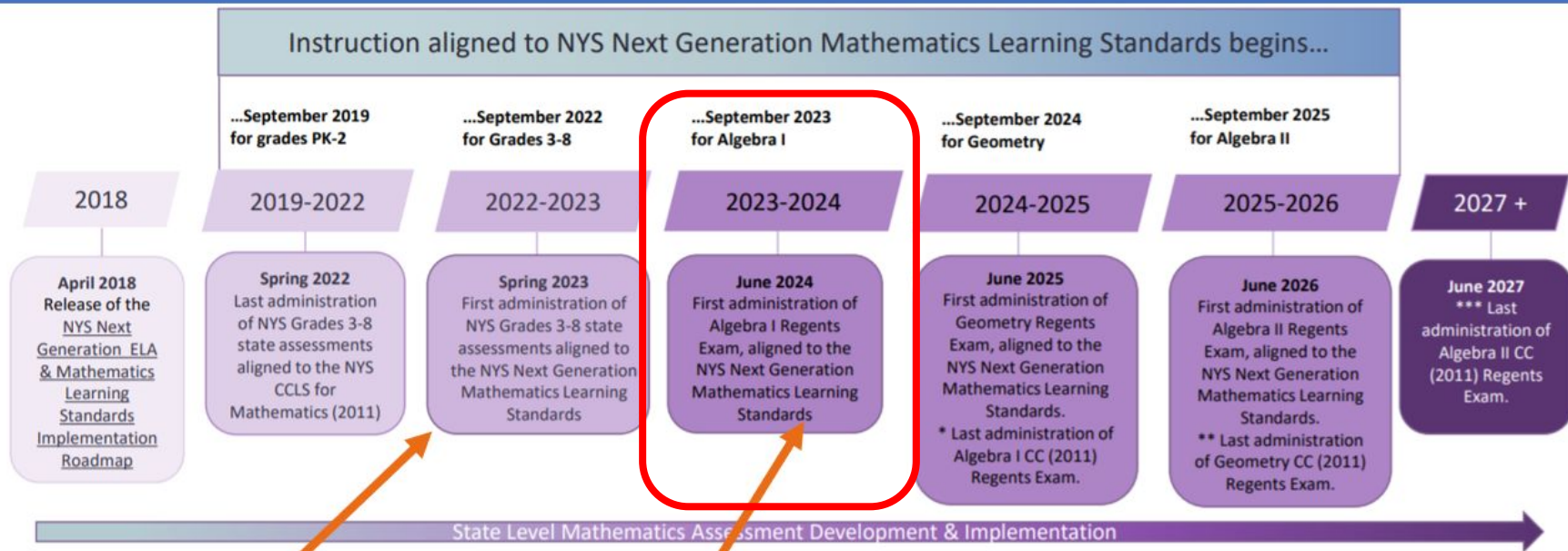


Graduation requirements for mathematics



- Three years of mathematics study
 - One Regents in Mathematics - 65 or Higher - **Regents Diploma**
 - Three Regents scores of 65 or Higher - **Advanced Regents Diploma**
 - Three Regents math scores of 85 or better - **Mastery designation**
- The Syosset norm is that students take four years of math (or more!)
- Statistics, computer science, and robotics courses are typically taken in **addition to** math courses.

TIMELINES FOR ASSESSMENTS MEASURING NEW LEARNING STANDARDS - MATH



*Algebra I CC (2011) will be administered June 2024, August 2024, Jan 2025 and June 2025.

**Geometry CC (2011) will be administered June 2025, August 2025, Jan 2026 and June 2026.

*Algebra II CC (2011) will be administered June 2026, August 2026, Jan 2027 and June 2027.

Spring 2023: Grades 3-8 Tests

June 2024: Algebra I
June 2025: Geometry
June 2026: Algebra II

Grade 8

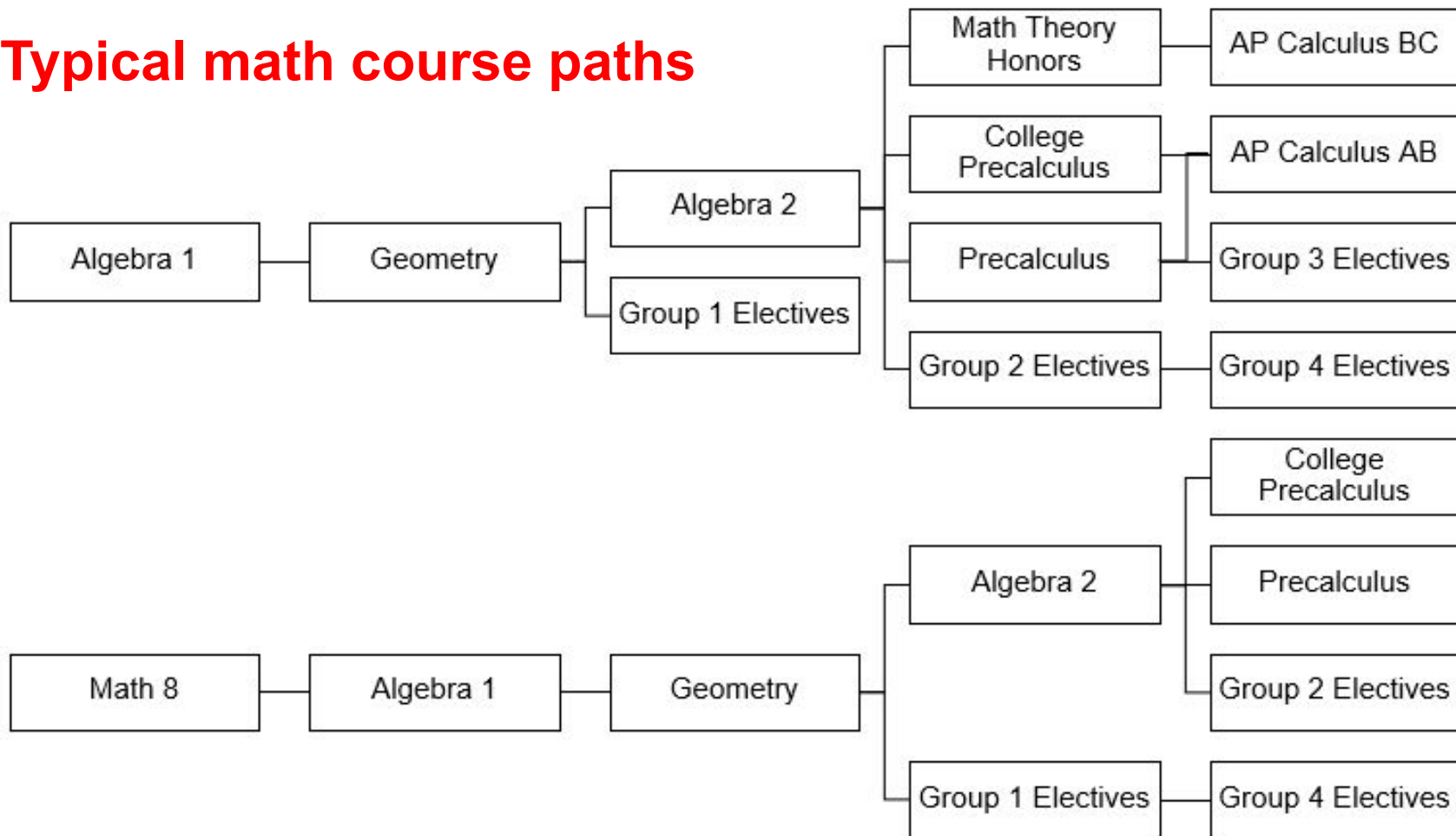
Grade 9

Grade 10

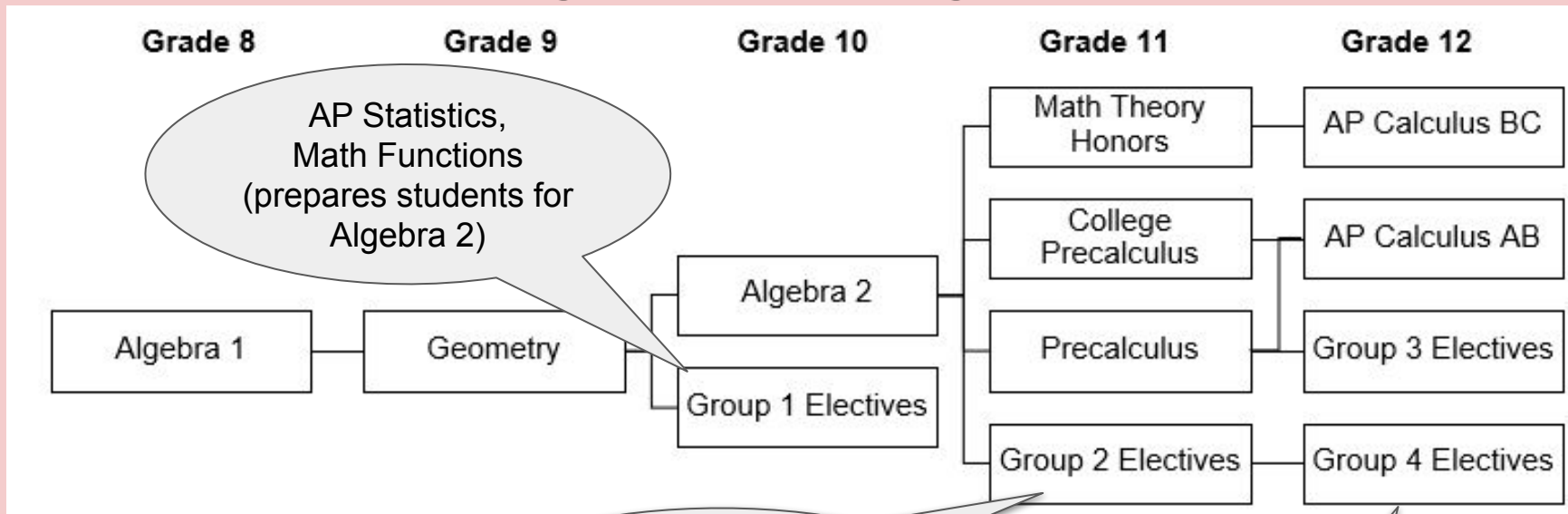
Grade 11

Grade 12

Typical math course paths

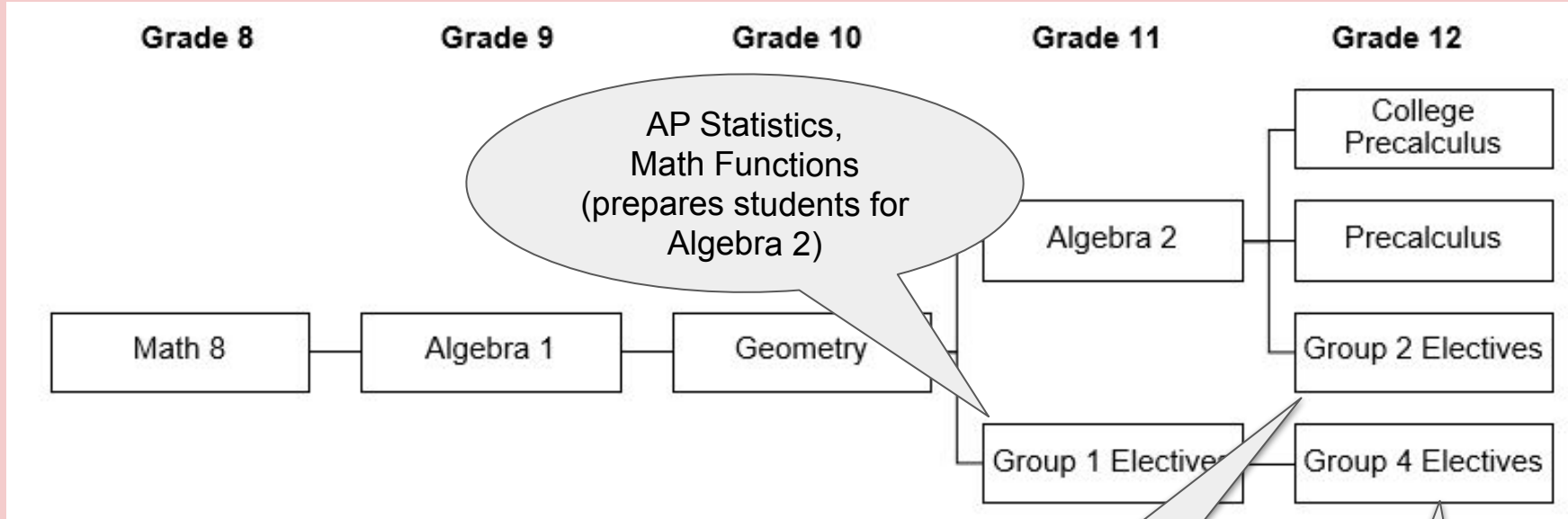


Algebra 1 in 8th grade



*AP Calculus AB can be reached if students study College Precalculus or Syosset Precalculus

Math 8 in 8th grade

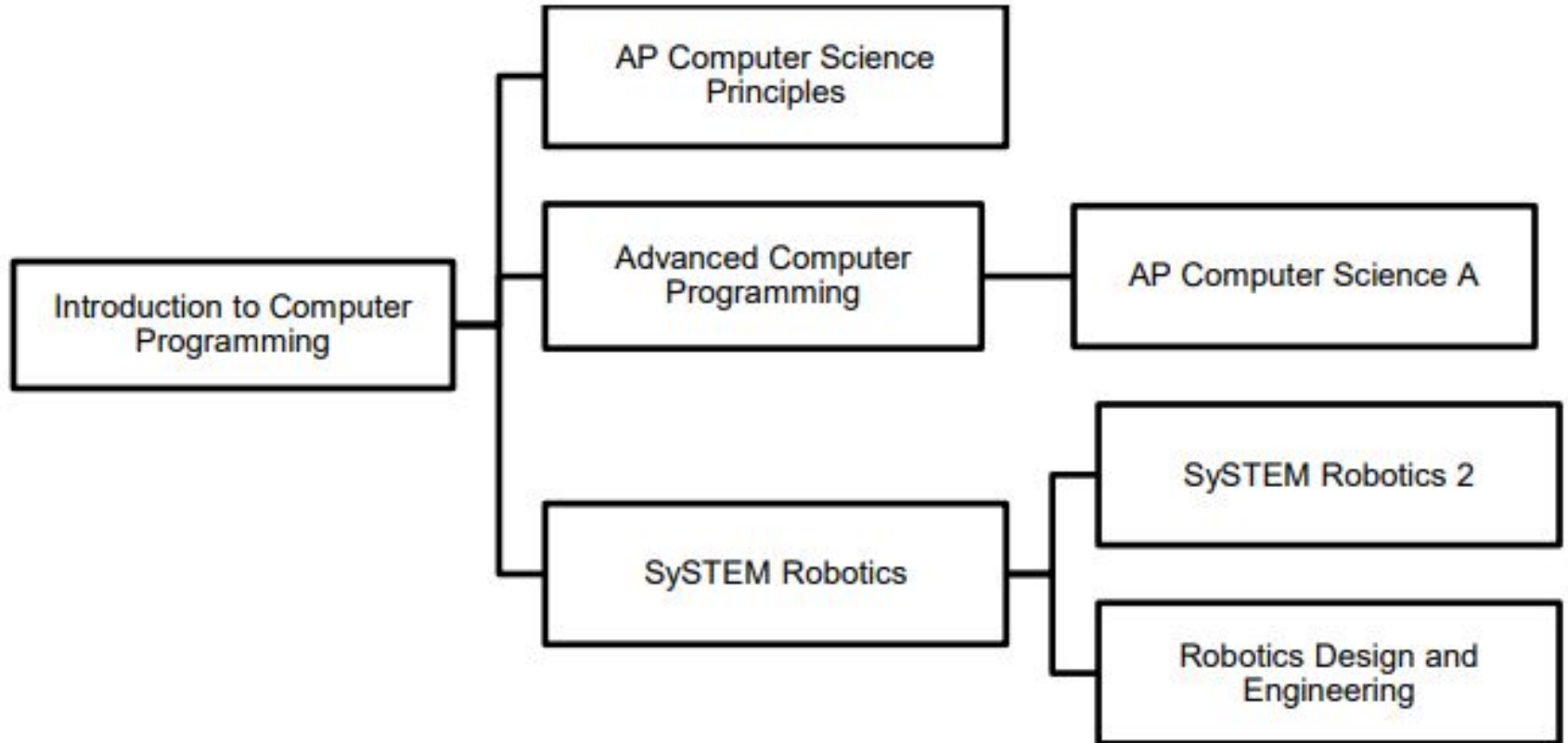


All students have the opportunity to learn college and/or AP math before graduation!

AP Statistics,
Advanced Algebra

Applied Math

Typical computer science and robotics path



Our HS courses

Pure Math

Algebra 1

Geometry

Algebra 2

Precalculus

College Precalculus (LIU)

Math Theory Honors

AP Calculus AB

AP Calculus BC

Applied Math/Computer Science

AP Statistics

Intro to Programming

Advanced Programming

AP Computer Science A

AP Computer Science Principles

SySTEM Robotics 1

SySTEM Robotics 2

Discrete Math

Electives

Math Functions

Advanced Algebra

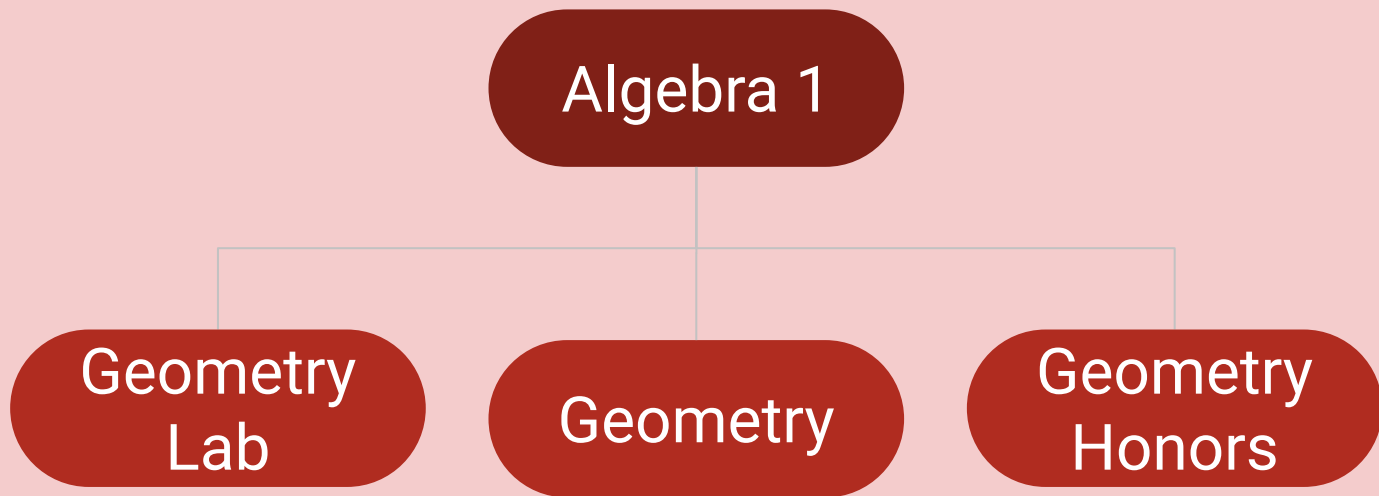
Advanced Math w/Apps

Independent Study

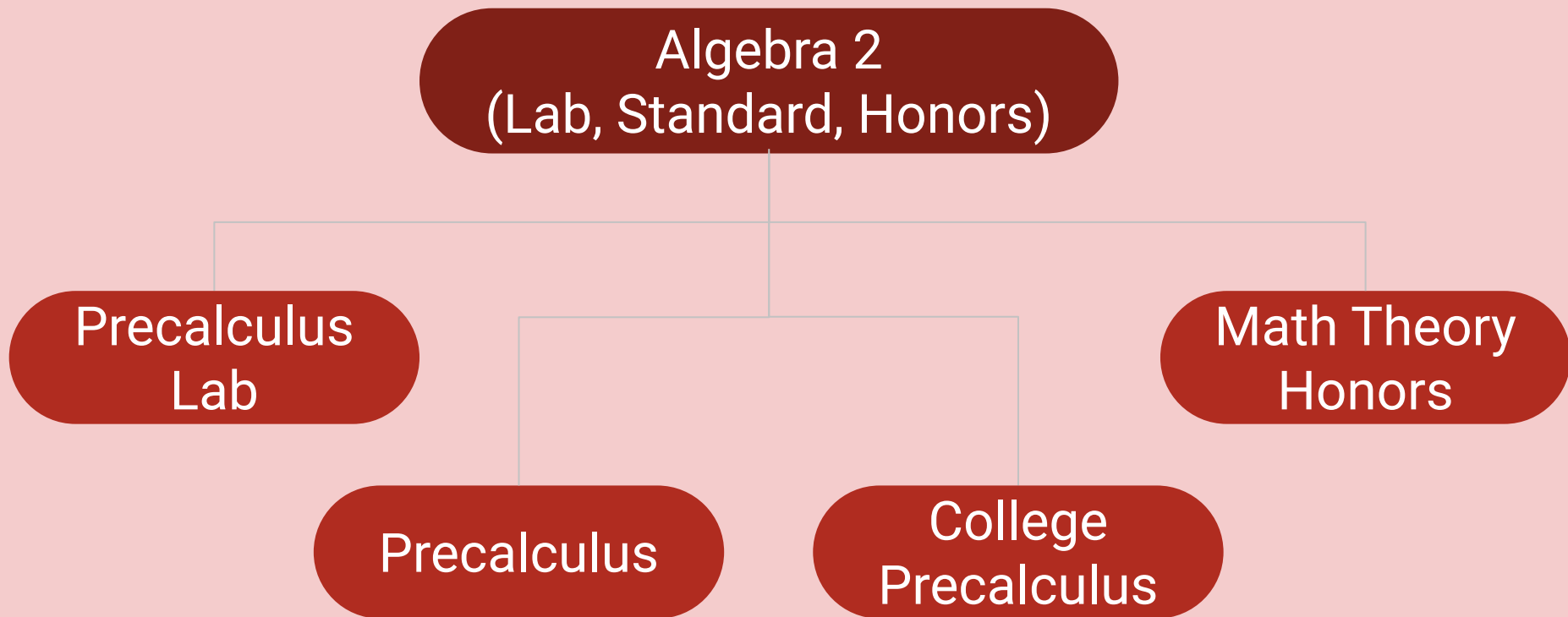
Math Research

You'll hear from students of these courses a little bit later!

Course progressions, 8-9 transition



Course progressions, 10-11 transition



Course progressions, 10-11 transition

Students may advance to AP Calculus AB from any one of these three!

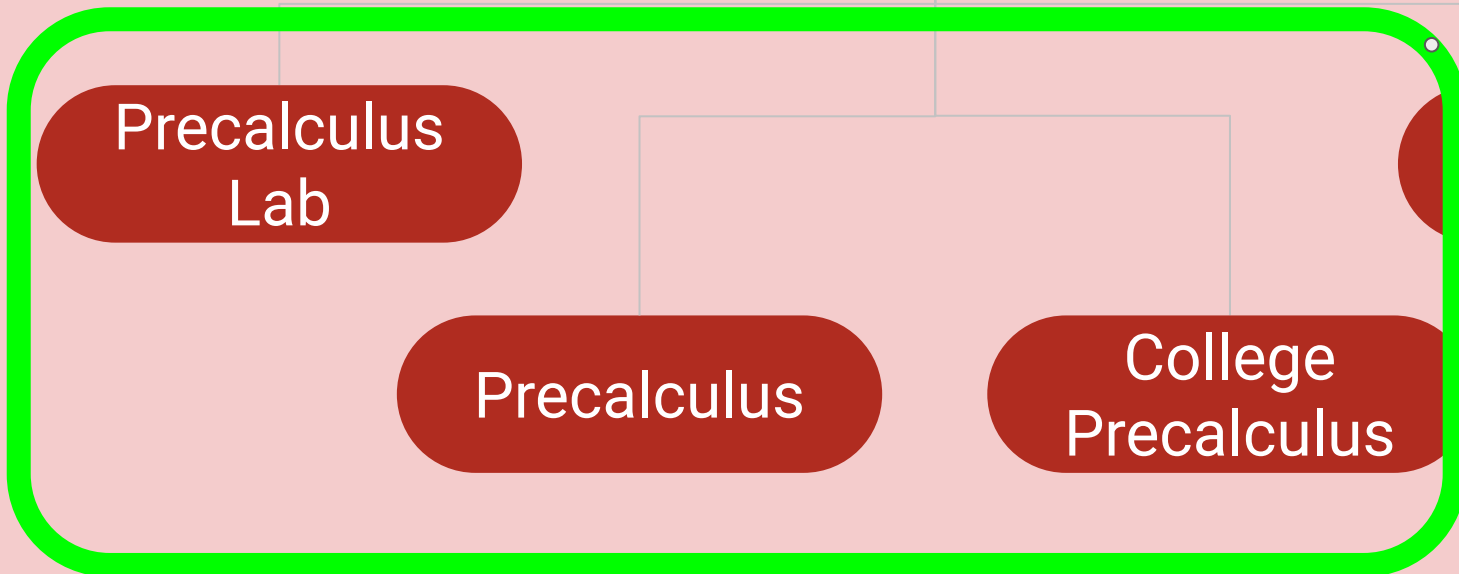
Algebra 2
(Lab, Standard, Honors)

Precalculus
Lab

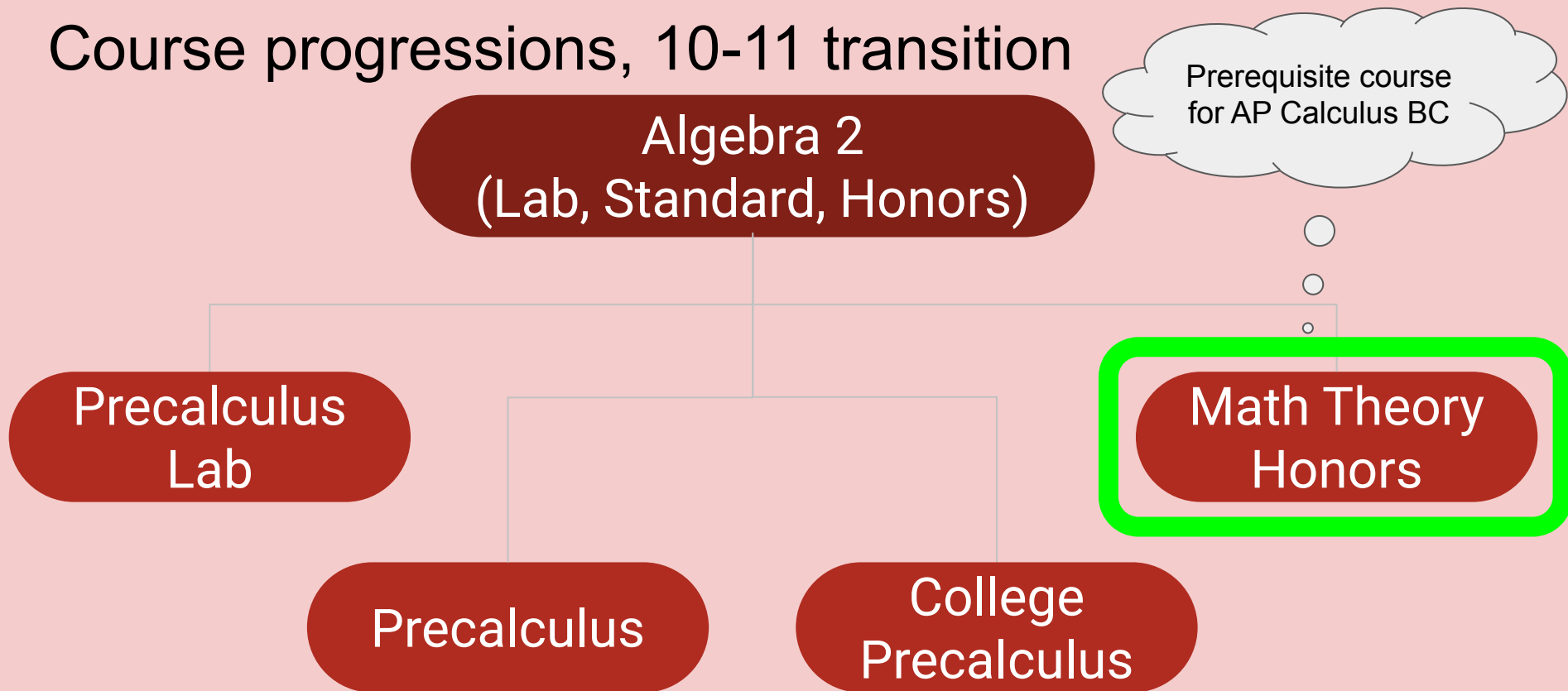
Precalculus

College
Precalculus

Math Theory
Honors



Course progressions, 10-11 transition





SHREYA VASUDEVAN

Syosset 10th Grader

Math support and how to get help!

- Our communication protocol: talk to the teacher first, then coordinator
 - Possible conversation starters
 - “My child is challenged by _____. What can we do to support him/her?”
 - “I noticed that he/she seems to be having difficulty with _____. What works for students in this case?”
 - “He/she reports that _____ is a strength, but is struggling with _____. How might we use what he/she is doing well as leverage on the struggle?”
- We are all problem solvers! Your child’s classroom teacher is in the best position to share evidence, think flexibly with you and our kids, and carry out a plan.



Math support and how to get help! (listed in order)

- 1. Extra help - *students bring questions on a concept or assignment***
 - At least once a week before or after school for all students
 - Our school website has the full schedule
 - Students can attend extra help for any teacher
- 2. Math assist available during lunch periods 4-8 every day - *can serve same function as extra help and can also provide some reteaching in small groups.***
 - Held in classroom E13
 - Syosset Math teachers are regularly present to answer questions, review concepts, administer make up assignments
- 3. NHS tutors - see your guidance counselor**
 - Peer tutors who will work one-on-one, first three sessions are gratis
- 4. Lab or support courses available**

Math Contest Experiences

- American Math Contests

- AMC 10/12 - Nov. 10, 2021 **We invited all students to participate!**
- AMC 10/12 → AIME → USAMO

- Syosset Mathletes

- NCIML
- NYML
- Nassau Math Tournament

- Nassau All-Stars

- NYSML - Hosted in Ithaca
- ARML - Hosted at Penn State University



Thank you!

At this time I'll answer questions!

