

Mathematics

The learning of mathematics takes place in a student-centered environment where students are actively involved in the investigation and discovery of mathematical principles. In the process, students learn the language of mathematics, appreciate the beauty of mathematical ideas, and study the relevance of their applications across the disciplines. Students build upon their problem solving and critical thinking skills.

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Mathematics Director K-12
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9th Grade Math

Math Courses

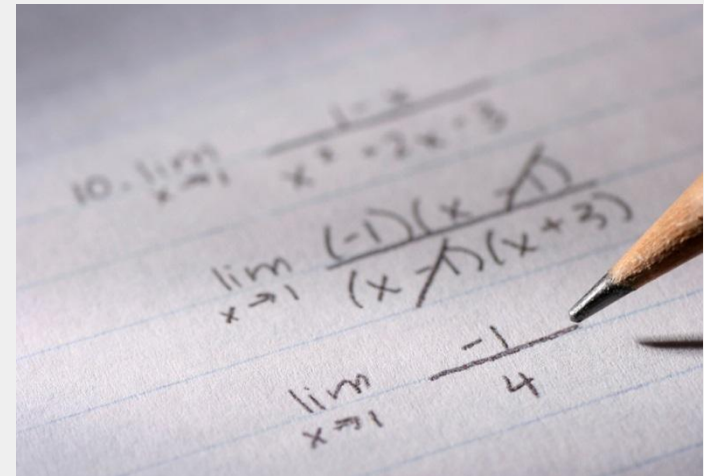
- Algebra 1
- Geometry
- Geometry Advanced

Math Support

- Algebra 1 Workshop
- Geometry Workshop

Math Electives

- Computer Science Discoveries
- Math Research Level I



MATHEMATICS DEPARTMENT
Math Courses and Pathways (2021-2022)*

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Math 6	Math 7	Pre-Algebra	Algebra 1	Geometry	Algebra 2	Pre-calculus OR Electives
	Math 7 Advanced	Algebra 1	Geometry	Algebra 2	Pre-calculus OR Pre-Cal Hon	AP Calculus AB OR AP Calculus BC
			Geometry Advanced	Alg2/Pre-Cal Advanced	AP Calculus BC	Multivariable Calculus

*Incoming Grade 9 students
Math AIS is offered for students in grades 6-10

MATH ELECTIVES

Grade 9- Math Research Level 1, Computer Science Discoveries.

Grade 10- Math Research Level 2, CS Principles AP, Computer Science Discoveries, Computer Science I, Computer Science II

Grade 11 and 12- Math Research Level 3, CS Principles AP, Computer Science I, Computer Science II, Computer Science AP, Statistics AP, Topics in Math 1, Topics in Math 2, College Algebra, College Statistics, College Calculus

- Geometry is offered for students who have completed Algebra 1 in Grade 8.
- For students especially those interested in Humanities, Social sciences, Arts/Music, Medical sciences we recommend the pathway:
Geometry → Algebra 2 → Precal/PrecalHonors → Calculus AB/Calculus BC
- For students who are highly interested and motivated to pursue Mathematics or Engineering in college and as a career, we recommend the more advanced and highly rigorous math pathway:
Geometry Adv → Alg2/Precal Adv → Calculus BC → Multivaraiable calculus
- Computer Science Discoveries is an elective available for students who have completed Algebra 1

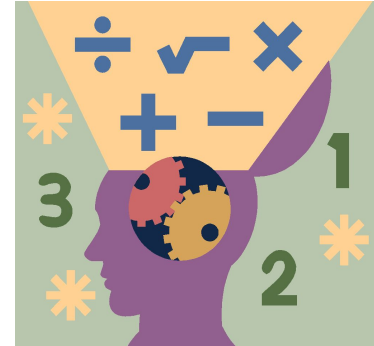
Extra Curricular Activities

Mathletes Club

- ❖ Grade 9 (Juniors Team)
- ❖ Grades 10-12

Math Competitions

- ❖ AMC 10 /12
- ❖ Nassau County Math Tournament
- ❖ Coding Club
- ❖ Long Island Math Fair (Hofstra University)



Math Extra Help / Support

- ❖ Extra help is offered on Wednesdays after school
- ❖ Math Testing Day is Thursday
- ❖ Learning Center for math help is available Periods 4-8 in Room 204
- ❖ Academic Support and math workshops are offered in Grades 9-10
- ❖ Student Tutoring available through Guidance Department

