

SY 2024-2025

This document contains detailed information about the Loudoun County Public Schools (LCPS) Middle School mathematics course options and the course selection process for rising 6th, 7th, 8th, 9th, 10th, 11th, and 12th grade students.

Use the links below to find specific information for the grade level and/or course students are currently enrolled. *Supporting documents are on page 2 (linked here)*.

Elementary School Students							
Current 5th Grade Students (risi	Current 5th Grade Students (rising 6th graders)						
	Middle School Students						
Current 6th Graders (rising 7th graders)	, o l						
 Enrolled in Math 6 Enrolled in Math 7 (Foundations of Algebra) Enrolled in Pre-Algebra (Math 8) Enrolled in Algebra 1 	 Enrolled in Math 7 (Foundations of Algebra) Enrolled in Pre-Algebra (Math 8) Enrolled in Algebra 1 	 Enrolled in Pre-Algebra (Math 8) Enrolled in a High School Credit Course 					
	High School Students						
Current 9th, 10th, and 11th Grac	de Students (rising 10th, 11th, and	d 12th graders)					

Document in Languages

- <u>عربي Arabic</u>
- Farsi فارسى
- Spanish Español
- Vietnamese Tiéng Việt



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Other documents referenced within this document:

Materials for students and families

- Middle School Math Course Recommendation Information Video for Parents/Guardians for School Year 24-25
- Additional Information for High School Courses Beyond Algebra 2 Video
- VDOE 2023 Mathematics Standards
- Middle School Math Course Selection Teacher Recommendation Process
- Pre-Algebra Readiness Assessment Guidance Document (current 5th Grade students only)

Materials for LCPS Staff (must use LCPS account to access)

6th Grade Math Course Selection Documents

- 6th Grade Math Course Timeline
- Middle School Math Course Selection Teacher Recommendation Process
- Pre-Algebra Readiness Assessment Guidance Document
- <u>Pre-Algebra Readiness Assessment Parent Communication Sample</u> (template available in Permission Click)
- Pre-Algebra Readiness Assessment Proctor Instructions
- Guidance for Pre-Algebra Readiness Assessment After February 15th
- Guidance for Single Subject Acceleration (Algebra in 6th Grade)
- Guidance for Elementary/Middle Schools for Math Course Request Changes for Acceleration
- Parent/Guardian Math Course Selection Process Information Letter

Secondary Math Course Selection Documents

- Middle School Math Course Selection Teacher Recommendation Process
- <u>Parent/Guardian Math Course Selection Process Information Letter</u>
- Guidance for Elementary/Middle Schools for Math Course Request Changes for Acceleration



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Math Course Selection Decision Process for Students Currently Enrolled in 5th grade

Students enrolled in Grade 5 Math will receive a teacher recommendation for either Math 6 or Math 7 (Foundations of Algebra). Teachers will enter their recommendations between **January 23 - February 22**, **2024** using the Middle School Math Course Teacher Recommendation Process document to look at all of the student data. Once parents/guardians receive the teacher recommendation in ParentVue, available **February 23, 2024**, they may request to have a meeting with the school (teacher and/or counselor) to discuss a desired course change.

Students should consider their level of understanding of mathematics concepts in their current math course as well as in math courses they may be skipping. For more information about the concepts included in each course, please visit the <u>2023 Standards of Learning VDOE Mathematics website</u>.

This decision should be made based on the student's long-term and short-term goals and aspirations.

Some factors to consider are:

- Ones the student want to skip Math 6 and accelerate one year?
- Does the student want to take Algebra 1 in middle school in order to be able to apply to AET/AOS,
 Thomas Jefferson HS, or other magnet school?

Grade 6 2024-25	Grade 7 2025-26	Grade 8 2026-27	Grade 9 2027-28	Grade 10 2028-29	Grade 11 2029-30	Grade 12 2030-31	
Math 6	Math 7 (Foundations of	Pre-Algebra	Algebra 1	Geometry	Algebra 2	Probability & Stats Discrete Math Data Science	
	Algebra)	(Math 8)	Algebra 1	Geometry	Algebra 2/Trig	Precalculus Math Analysis AP Statistics AP Precalculus	
Math 7	Pre-Algebra	Algebra 1		Al	Algebra 2	Probability & Stats Discrete Math Data Science Precalculus	Probability & Stats Discrete Math Data Science Precalculus
(Foundations of Algebra)	(Math 8) Algebra 1		,	Algebra 2/Trig	Math Analysis AP Statistics AP Precalculus	Math Analysis AP Statistics AP Precalculus AP Calculus AB AP Calculus BC	

This is a sample of a possible progression a student might take during their time in LCPS.



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Additional Acceleration in Mathematics

Some students may be interested in accelerating two years in mathematics, skipping Math 6 and Math 7 (Foundations of Algebra), in order to access Multivariable Calculus in high school. Students who wish to enroll in Pre-Algebra (Math 8) in 6th grade will take an assessment to determine readiness. This assessment should be available to all students who are interested in this mathematics pathway. The assessment is not designed to be given to all 5th grade students Interested students will work with their 5th grade teacher, who will use the Pre-Algebra Readiness Assessment Guidance Document, to schedule and administer the assessment during the window of January 29 - February 15, 2024. Students who receive a qualifying score on the assessment will be recommended for Math 8 Pre-Algebra in 6th grade.

The image below shows the mathematics pathway to reach Multivariable Calculus in 12th Grade.

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
Pre-Algebra (Math 8)	Algebra 1	Geometry	Algebra 2/Trig	AP Precalculus	AP Calculus BC	

<u>Further Acceleration in Mathematics through the Gifted Office</u>

Algebra 1 in 6th grade is not recommended as the typical course progression in LCPS. However, LCPS acknowledges that acceleration is a need for certain students. Students who scored a 90% or higher on the Pre-Algebra Readiness Assessment can be referred to the Gifted Office for an acceleration evaluation and further testing to determine eligibility.

The image below shows the mathematics pathway to reach Multivariable Calculus in 11th Grade. There is no calculus based option beyond Multivariable Calculus. Students on this pathway can choose to take a different advanced math course, such as AP Statistics or Data Science.

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
Algebra 1	Geometry	Algebra 2/Trig	AP Precalculus	AP Calculus BC	Multivariable Calculus	

The goal of the math placement process is to ensure that students have access to the appropriate course to meet their individual academic needs based on their achievement as well as future goals. LCPS acknowledges that acceleration is a need for certain students. In the event that a family would like to discuss acceleration beyond the available course options in the LCPS Program of Studies, they can reach out to their school (teacher and/or counselor) and consult with the Office of Gifted Programs.



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Math Course Selection Decision Process for Students Currently Enrolled in Math 6

Students enrolled in Math 6 will receive a teacher recommendation for either Math 7 (Foundations of Algebra) or Pre-Algebra (Math 8). Teachers will enter their recommendations between **January 2 - February 7, 2024** using the Middle School Math Course Teacher Recommendation Process document to look at all of the student data. Once parents/guardians receive the teacher recommendation in ParentVue, available **February 8, 2024**, they may request to have a meeting with the school (teacher and/or counselor) to discuss a desired course change.

Students should consider their level of understanding of mathematics concepts in their current math course as well as in math courses they may be skipping. For more information about the concepts included in each course, please visit the 2023 Standards of Learning VDOE Mathematics website.

This decision should be made based on the student's long-term and short-term goals and aspirations.

Some factors to consider are:

- Does the student want to accelerate one year by skipping Foundations of Algebra?
- Does the student want to take Algebra 1 in middle school in order to be able to apply to AET/AOS,
 Thomas Jefferson HS, or other magnet school?
- o Does the student want to take Calculus in high school?

The image below shows typical mathematics pathways for current 6th grade students in Math 6. The <u>24-25 LCPS</u> <u>Program of Studies</u> gives a full description of the mathematics courses offered in 7th grade.

Grade 6 2024-25	Grade 7 2025-26	Grade 8 2025-26	Grade 9 2026-27	Grade 10 2027-28	Grade 11 2028-29	Grade 12 2029-2030	
	Math 7 (Foundations	Pre-Algebra (Math 8) Algebra 1	Algebra 1	ora 1 Geometry	Algebra 2	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Precalculus AP Statistics	
	of Algebra)		Algebia 1		Algebra 2/Trig		
Math 6				Algebra 2	Data Science Probability &	Data Science Probability & Statistics	
	Pre-Algebra (Math 8) Algebra 1		Geometry	Algebra 2/Trig	Statistics Discrete Math Trig & Adv Algebra AP Precalculus AP Statistics	Discrete Math Trig & Adv Algebra AP Precalculus AP Statistics AP Calculus AB or BC	



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Math Course Selection Decision Process for 6th Grade Students Currently Enrolled in Foundations of Algebra

6th grade students currently enrolled in Foundations of Algebra will receive a teacher recommendation for either Pre-Algebra (Math 8) or Algebra 1. Teachers will enter their recommendations between **January 2** - **February 7**, **2024** using the Middle School Math Course Teacher Recommendation Process document to look at all of the student data. Once parents/guardians receive the teacher recommendation in ParentVue, available **February 8**, **2024**, they may request to have a meeting with the school (teacher and/or counselor) to discuss a desired course change.

Students should consider their level of understanding of mathematics concepts in their current math course as well as in math courses they may be skipping. For more information about the concepts included in each course, please visit the 2023 Standards of Learning VDOE Mathematics website.

This decision should be made based on the student's long-term and short-term goals and aspirations.

Some factors to consider are:

- Does the student want to skip an additional year of math, Math 8 Pre-Algebra?
- Does the student want to take two high school courses (Algebra 1 and Geometry) in middle school?
- Does the student want to take Multivariable Calculus in high school?

Other information that may be used to determine course selection:

MAP data may be considered in determining course selection.

RIT scores are **not to be used** in isolation when making a decision. All students in LCPS took the Winter MAP assessment. NWEA indicates a score of 235 may show readiness for Algebra 1. Additional data points to consider can be found in the <u>Teacher Recommendation Guidance</u>.

The image below shows typical mathematics pathways for current 6th grade students in Foundations of Algebra. The <u>24-25 LCPS Program of Studies</u> gives a full description of the mathematics courses offered in 7th grade.

Grade 6 2023-24	Grade 7 2024-25	Grade 8 2025-26	Grade 9 2026-27	Grade 10 2027-28	Grade 11 2028-29	Grade 12 2029-2030	
	Pre-Algebra (Math 8)	Algebra 1	Geometry	Algebra 2	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Precalculus AP Statistics	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Precalculus AP Statistics AP Calculus AB or BC	
Math 7	(Algebra 2/Trig			
(Foundations of Algebra)			Algebra 2	Data Science Probability & Statistics	Data Science Probability & Statistics Discrete Math	Data Science Probability & Statistics Discrete Math	
	Algebra 1	Geometry	Algebra 2/Trig	Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus	Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC	Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC Multivariable Calculus	



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Math Course Selection Decision Process for 7th Grade Students Currently Enrolled in Foundations of Algebra

7th grade students currently enrolled in Foundations of Algebra will receive a teacher recommendation for either Pre-Algebra (Math 8) or Algebra 1. Teachers will enter their recommendations between **January 2** - **February 7**, **2024** using the Middle School Math Course Teacher Recommendation Process document to look at all of the student data. Once parents/guardians receive the teacher recommendation in ParentVue, available **February 8**, **2024**, they may request to have a meeting with the school (teacher and/or counselor) to discuss a desired course change.

Students should consider their level of understanding of mathematics concepts in their current math course as well as in math courses they may be skipping. For more information about the concepts included in each course, please visit the 2023 Standards of Learning VDOE Mathematics website. This math course selection will determine which mathematics pathways a student has access to in high school and affect their opportunities to apply to some magnet schools.

This decision should be made based on the student's long-term and short-term goals and aspirations.

Some factors to consider are:

- Does the student want to accelerate one year by skipping Pre-Algebra?
- Does the student want to take Algebra 1 in middle school in order to be able to apply to AET/AOS, Thomas Jefferson HS, or other magnet school?

Other information that may be used to determine course selection:

MAP data may be considered in determining course selection.

RIT scores are **not to be used** in isolation when making a decision. All students in LCPS took the Winter MAP assessment. NWEA indicates a score of 235 may show readiness for Algebra 1. Additional data points to consider can be found in the <u>Teacher Recommendation Guidance</u>.

The image below shows typical mathematics pathways for current 7th grade students in Foundations of Algebra. The <u>24-25 LCPS Program of Studies</u> gives a full description of the mathematics courses offered in 8th grade.

Grade 7 2023-24	Grade 8 2024-25	Grade 9 2025-2026	Grade 10 2026-27	Grade 11 2027-28	Grade 12 2027-2028
Math 7	Pre-Algebra (Math 8)	Algebra 1	Geometry	Algebra 2 or Algebra 2/Trig	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus
(Foundations of Algebra)	Algebra 1	Geometry	Algebra2 or Algebra 2/Trig	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC



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Math Course Selection for 6th and 7th grade Students in Pre-Algebra

6th and 7th grade students currently enrolled in Pre-Algebra (Math 8) will receive a teacher recommendation for Algebra 1 for their 7th or 8th grade year.

The image below shows typical mathematics pathways for current 6th grade students in Pre-Algebra. The <u>24-25 LCPS</u> <u>Program of Studies</u> gives a full description of the mathematics courses offered in 7th grade.

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Pre-Algebra (Math 8)	Algebra 1	Geometry	Algebra 2 or Algebra 2/Trig	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC Multivariable Calculus

The image below shows typical mathematics pathways for current 7th grade students in Pre-Algebra. The <u>24-25 LCPS</u> <u>Program of Studies</u> gives a full description of the mathematics courses offered in 8th grade.

Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Pre-Algebra (Math 8)	Algebra 1	Geometry	Algebra 2 or Algebra 2/Trig	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC



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Math Course Selection for 6th and 7th grade Students in Algebra 1

6th and 7th grade students currently enrolled in Algebra 1 will receive a teacher recommendation for Geometry for their 7th or 8th grade year.

The image below shows typical mathematics pathways for current 6th grade students in Algebra 1. The <u>24-25 LCPS</u> Program of Studies gives a full description of the mathematics courses offered in 7th grade.

Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 8	Grade 12
2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Algebra 1	Geometry	Algebra 2/Trig	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC Multivariable Calculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC Multivariable Calculus

The image below shows typical mathematics pathways for current 7th grade students in Algebra 1. The <u>24-25 LCPS</u> <u>Program of Studies</u> gives a full description of the mathematics courses offered in 8th grade.

Grade 7	Grade 8	Grade 9	Grade 10	Grade 8	Grade 12
2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Algebra 1	Geometry	Algebra 2/Trig	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC Multivariable Calculus



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Math Course Selection for 7th grade Students in Geometry

7th grade students currently enrolled in Geometry will receive a teacher recommendation for Algebra 2 with Trigonometry for their 8th grade year.

The image below shows typical mathematics pathways for current 7th grade students in Geometry. The <u>24-25 LCPS</u> <u>Program of Studies</u> gives a full description of the mathematics courses offered in 8th grade.

Grade 7	Grade 8	Grade 9	Grade 10	Grade 8	Grade 12
2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Geometry	Algebra 2/Trig	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC Multivariable Calculus	Data Science Probability & Statistics Discrete Math Trig & Adv Algebra AP Statistics AP Precalculus AP Calculus AB or BC Multivariable Calculus



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Sample High School Pathways

Grade 9	Grade 10	Grade 11	Grade 12	
Algebra 1	Algebra 2	Prob-Statistics/Discrete, Data Science, AP Statistics	Prob-Statistics/Discrete, Data Science, AP Statistics	
	FADA	Geometry	Algebra 2 OR Algebra 2/Trig	
	Geometry	Algebra 2 OR Algebra 2/Trig	Prob-Statistics/Discrete, Data Science, AP Statistics	
			Trigonometry/ Advanced Algebra	
			Precalculus/AP Precalculus	
FADA			Mathematical Analysis	
Geometry	Algebra 2 OR Algebra 2/Trig	Prob-Statistics/Discrete, Data Science, AP Statistics,	Precalculus, Prob-Statistics/Discrete, Data Science, AP Statistics	
		Trigonometry/Advanced Algebra	Precalculus/AP Precalculus	
		Precalculus	AP Calculus AB	
		AP Precalculus	AP Calculus AB or BC	
		Mathematical Analysis		
Algebra 2 OR Algebra 2/Trig	Geometry*	Precalculus/AP Precalculus	AP Calculus AB	
	Prob-Statistics/Discrete, Data Science, AP Statistics	Prob-Statistics/Discrete, Data Science, AP Statistics	Prob-Statistics/Discrete, Data Science, AP Statistics	
	Trigonometry/Advanced Algebra	Precalculus	AP Calculus AB	
	Precalculus	AP Calculus AB	AP Calculus BC	
	AP Precalculus	AP Calculus BC	Multivariable Calculus Dual Enrollment	
	Mathematical Analysis	Ai Calculus DO		

^{*}Students are able to take Geometry before or after Algebra 2 in high school. Geometry and Algebra 2 must be taken before enrolling in Trigonometry/Advanced Algebra and/or Precalculus/AP Precalculus

^{**}Students must have completed Computer Math before taking AP Computer Science A. Students may take Computer Math concurrently with another math course after completing Algebra 1.

^{**}Students must have completed AP Calculus BC before enrolling in Multivariable Calculus Dual Enrollment.



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Math Course Selection Decision Process for 8th Grade Students in Pre-Algebra

Please refer to the <u>Sample High School Pathways</u> to see the possible courses students can take beyond their 9th grade year. The <u>24-25 LCPS Program of Studies</u> gives a full description of the mathematics courses offered in high school.

Students currently enrolled in Pre-Algebra (Math 8 SOL) will receive a teacher recommendation for Algebra 1 in 9th Grade. Algebra 1 can be taken as a single block year long course (540000 - 1 HS Math Credit) or as a double block year long course (543201 - 1 HS Math Credit and 543202 - 1 HS Elective Credit).

The image below shows typical mathematics pathways for current 8th grade students in Pre-Algebra. The <u>24-25 LCPS</u> <u>Program of Studies</u> gives a full description of the mathematics courses offered in 9th grade.

Grade 8 2023-24	Grade 9 2024-25	Grade 10 2025-26	Grade 11 2026-27	Grade 12 2027-28
Pre-Algebra (Math 8 SOL)	Algebra 1	Geometry	Algebra 2 Probability & Statistics	Data Science Probability & Statistics Discrete Math
	Algebra 1 Double Block*		or Algebra 2/Trig	Trig & Adv Algebra AP Statistics AP Precalculus

^{*} This math course selection will affect student schedules as it impacts the number electives available. Algebra 1 Double Block is an appropriate recommendation for students who wish to have additional class time and support in their Algebra 1 course.

If Algebra 1 Double Block (**ALG1_DB** on the score menu) is recommended for a student and the teacher **must** add a note to the recommendation for the counselor to add the elective that coincides with the course to the student schedule. When the 8th grade counselor inputs information for schedules, he/she should assign the course along with the elective that coincides with the course.



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Math Course Selections for 8th Graders in High School Math Courses

Please refer to the <u>Sample High School Pathways</u> to see the possible courses students can take beyond their 9th grade year. The <u>24-25 LCPS Program of Studies</u> gives a full description of the mathematics courses offered in high school.

Questions to Guide Student Conferences

- What math courses are you interested in taking?
- What type of diploma do you want to obtain, Standard or Advanced?
- Will you be applying for a program at the Academies of Loudoun for AET or MATA in high school?
- What are your post high school interests?
 - What colleges/universities are you interested in applying for?
 - What careers are you looking to be in after high school and/or college?

Students enrolled in Algebra 1

Students currently enrolled in Algebra 1 can select from the following mathematics courses for their 9th grade year:

- Geometry*
- Algebra 2
- Functions, Algebra, and Data Analysis (FADA)

Students enrolled in Geometry

Students currently enrolled in Geometry can select from the following mathematics courses for their 9th grade year:

- Algebra 2
- Algebra 2 with Trigonometry
- Functions, Algebra, and Data Analysis (FADA)

Students enrolled in Algebra 2 with Trigonometry

Students currently enrolled in Algebra 2 with Trigonometry can select from the following mathematics courses for their 9th grade year:

- Trigonometry/Advanced Algebra
- Precalculus
- AP or DE Precalculus
- Math Analysis
- Probability & Statistics/Discrete Mathematics
- Data Science
- Computer Math
- AP Statistics

^{*}Geometry is required for many courses beyond Algebra 2. Please see the Program of Studies and/or the Sample High School Pathways for more information.



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Math Course Selections for 9th, 10th and 11th Grade Students

Please refer to the <u>Sample High School Pathways</u> to see possible courses students may take through high school. The <u>24-25 LCPS Program of Studies</u> gives a full description of the mathematics courses offered in high school.

Questions to Guide Student Conferences

- What math courses are you interested in taking?
- What type of diploma do you want to obtain, Standard or Advanced?
- Will you be applying for a program at the Academies of Loudoun for AET or MATA in high school?
- What are your post high school interests?
 - What colleges/universities are you interested in applying for?
 - What careers are you looking to be in after high school and/or college?

Students enrolled in Algebra 1

Students currently enrolled in Algebra 1 can select from the following mathematics courses:

- Geometry
- Algebra 2
- Functions, Algebra, and Data Analysis (FADA)

Students enrolled in Functions, Algebra, and Data Analysis (FADA)

Students currently enrolled in FADA can select from the following mathematics courses:

- Geometry
- Algebra 2
- Algebra 2 with Trigonometry*

Students enrolled in Geometry

Students currently enrolled in Geometry can select from the following mathematics courses:

- Algebra 2
- Algebra 2 with Trigonometry
- Functions, Algebra, and Data Analysis (FADA)

Students enrolled in Algebra 2

Students currently enrolled in Algebra 2 can select from the following mathematics courses:

- Trigonometry/Advanced Algebra*
- Precalculus*
- AP or DE Precalculus*
- Probability & Statistics/Discrete Mathematics
- Data Science
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics

^{*} Students must have completed Geometry in order to take Algebra 2 with Trigonometry

^{*} These courses require students to have completed Geometry and Algebra 2



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Students enrolled in Algebra 2 with Trigonometry

Students currently enrolled in Algebra 2 with Trigonometry can select from the following mathematics courses:

- Trigonometry/Advanced Algebra
- Precalculus
- AP or DE Precalculus
- Math Analysis
- Probability & Statistics/Discrete Mathematics
- Data Science
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics

Students enrolled in Probability & Statistics/Discrete Mathematics

Students currently enrolled in Probability & Statistics/Discrete Mathematics can select from the following mathematics courses:

- Data Science
- Trigonometry/Advanced Algebra*
- Precalculus*
- AP or DE Precalculus*
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics

Students enrolled in Precalculus

Students currently enrolled in Precalculus can select from the following mathematics courses:

- AP or DE Precalculus
- Math Analysis
- Probability & Statistics/Discrete Mathematics
- Data Science
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics
- AP Calculus AB

Students enrolled in AP Precalculus or Math Analysis

Students currently enrolled in Math Analysis can select from the following mathematics courses:

- Probability & Statistics/Discrete Mathematics
- Data Science
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics
- AP Calculus AB
- AP Calculus BC

^{*} These courses require students to have completed Geometry and Algebra 2



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Students enrolled in Data Science

Students currently enrolled in Probability & Statistics/Discrete Mathematics can select from the following mathematics courses:

- Probability & Statistics/Discrete
- Trigonometry/Advanced Algebra*
- Precalculus*
- AP or DE Precalculus*
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics

Students enrolled in AP Statistics

Students currently enrolled in AP Statistics can select from the following mathematics courses:

- Probability & Statistics/Discrete Mathematics
- Trigonometry/Advanced Algebra*
- Data Science
- Precalculus*
- AP or DE Precalculus*
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Calculus AB**

Students enrolled in AP Calculus AB

Students currently enrolled in AP Calculus AB can select from the following mathematics courses:

- Probability & Statistics/Discrete Mathematics
- Data Science
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics
- AP Calculus BC

Students enrolled in AP Calculus BC

Students currently enrolled in AP Calculus BC can select from the following mathematics courses:

- Probability & Statistics/Discrete Mathematics
- Data Science
- Computer Math
- AP Computer Science A (must have completed Computer Math)
- AP Statistics
- Multivariable Calculus

^{*} These courses require students to have completed Geometry and Algebra 2

^{*} These courses requires students to have completed Geometry and Algebra 2

^{**} This course requires students to have completed Precalculus