

Baltimore County Public Schools Mathematics Program Grades 6 – 12

The Secondary Mathematics course sequence for Baltimore County Public Schools is designed with these guiding principles in mind:

Middle School Course Sequence Principles	High School Course Sequence Principles
<ul style="list-style-type: none"> ✓ Provide students access to all the middle school standards (grade 6, 7, and 8) prior to Algebra 1. ✓ Provide students opportunities to access Algebra 1 by grade 8. ✓ Provide access and opportunity to standards aligned, rigorous instruction (balance of conceptual understanding, procedural fluency, and application). ✓ Use consistent data protocols to drive placement decisions. 	<ul style="list-style-type: none"> ✓ Provide students opportunities to earn credits for courses that build on the content from prerequisite courses. ✓ Allow students to select course sequences that are based on their post-secondary school goals. This includes a calculus pathway or a statistics pathway. ✓ Provide access and opportunity to standards aligned, rigorous instruction (balance of conceptual understanding, procedural fluency, and application). ✓ Use consistent data protocols to drive placement decisions.

The current COMAR mathematics enrollment and mathematics credit requirements for graduation are as follows:

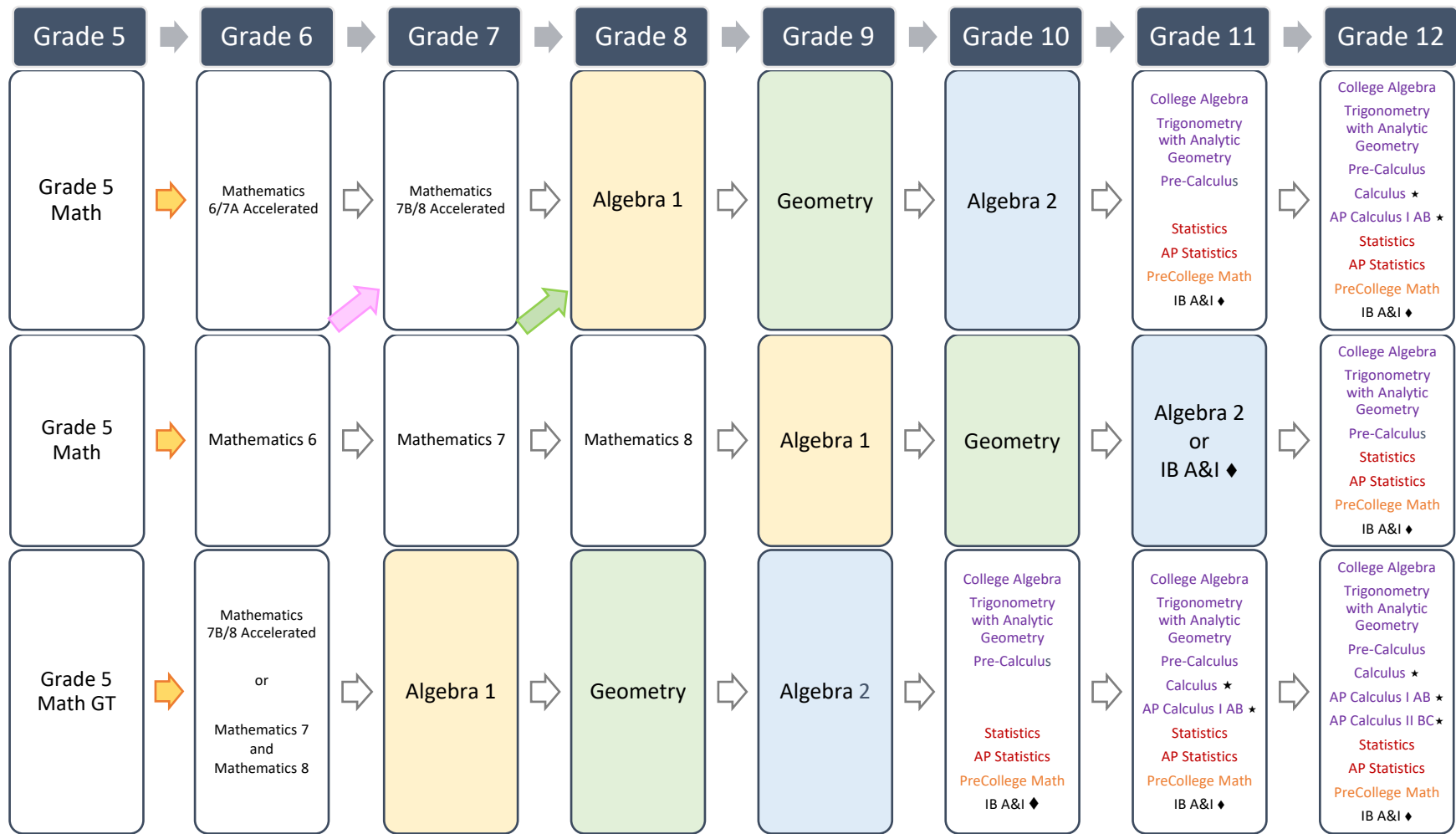
Enrollment Requirement ([COMAR 13A.03.02.03](#))

- Beginning with students entering the 9th grade class in the 2014 – 2015 school year, each student shall **enroll in a mathematics course in each year of high school that the student attends**, up to a maximum of 4 years of attendance, unless in the 5th or 6th year a mathematics courses is needed to meet a graduation requirement.

Credit Requirements ([COMAR 13A.03.02.03](#))

- Students who entered the 9th grade class in the 2020 – 2021 school year or earlier must earn **3 mathematics credits**, including:
 - One with instruction in algebra aligned with the Maryland Comprehensive Assessment for algebra or one or more credits in subsequent mathematics courses for which Algebra 1 is a prerequisite, and
 - One with instruction in geometry aligned with the content standards for geometry.
- Beginning with students entering the 9th grade class in the 2021 – 2022 school year, students must earn **4 mathematics credits**, including:
 - One with instruction in algebra aligned with the Maryland Comprehensive Assessment for algebra or one or more credits in subsequent mathematics courses for which Algebra 1 is a prerequisite, and
 - One with instruction in geometry aligned with the content standards for geometry.

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Key:




- ➔ Data Checkpoint: Grade 5 Universal Screening.
 - ➔ Data Checkpoint and Summer Programming to cover Math 7A content (Math Pi-oneers).
 - ➔ Data Checkpoint, Spring / Summer Programming to cover Math 8 content (Sprummer Course), Summer Programming to cover Math 8 content (Math Pi-oneers).
- ★: Courses labeled with a star (★) require prerequisite courses beyond Algebra 2. Refer to the course description for prerequisite requirements for these courses.
 ♦: IB Applications and Interpretations (IB A&I) is a two year course only offered at Kenwood High School and New Town High School in their International Baccalaureate Diploma Programme.

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Baltimore County Public Schools offers several options that supports the Secondary Mathematics Program, including:

Program	Description
<p style="text-align: center;">Sprummer</p> 	<p>Sprummer is a virtual program that allows for students to accelerate through the Secondary Math Sequence. Sprummer runs from the spring into the summer and uses the APEX course platform. Students have access to a virtual teacher.</p> <ul style="list-style-type: none"> • Math 7 students may enroll in Math 8 Sprummer. • Grade 8 Algebra 1 students may enroll in Geometry Sprummer • Grade 8 Geometry students may enroll in Algebra 2 Sprummer <p>Students and families interested in this program should contact Brett Parker, Supervisor of Secondary Mathematics (bparker3@bcps.org).</p>
<p style="text-align: center;">Math Pioneers</p> 	<p>Math Pioneers 6 is a face to face program that allows grade 6 students enrolled in Math 6 to accelerate through the Secondary Math Sequence by covering about half of the grade 7 content standards. Math Pioneers runs during BCPS Summer Programming and uses a combination of Illustrative Math Resources and APEX tutorials. Students who successfully complete Math Pioneers will enroll in Math 7B/8 in grade 7.</p> <p>Math Pioneers 7 is a face to face program that allows grade 7 students enrolled in Math 7 to accelerate through the Secondary Math Sequence by covering prioritized grade 8 content standards. Math Pioneers runs during BCPS Summer Programming and uses a combination of Illustrative Math Resources and APEX tutorials. Students who successfully complete Math Pioneers will enroll in Algebra 1 in grade 8.</p> <p>Students and families interested in this program should contact Brett Parker, Supervisor of Secondary Mathematics (bparker3@bcps.org).</p>
<p style="text-align: center;">Extended Year Learning Program (EYLP)</p> 	<p>BCPS high school students access self-paced blended courses in their high school EYLP program to:</p> <ul style="list-style-type: none"> • Earn original high school credits for graduation • Recover high school credits for graduation • Expand their range of courses and opportunities. <p>See a list of mathematics courses in the SPARC section. Students and families interested in this program should contact their school counselor.</p>

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<p style="text-align: center;">Extended Day Learning Program (EDLP)</p> 	<p>BCPS high school students access self-paced blended courses the evenings and/or on Saturday mornings at one or more centers across Baltimore County to:</p> <ul style="list-style-type: none"> • Earn original high school credits for graduation. • Recover high school credits for graduation. • Expand their range of courses and opportunities. <p>The following mathematics courses are offered through EDLP (Self Paced): Algebra 1, Geometry, Algebra 2, Statistics and Probability. The following mathematics courses are offered through EDPL (Face to Face): Algebra 1 and Algebra 2. Students and families interested in this program should contact their school counselor.</p>
<p style="text-align: center;">School Programs for Acceleration and Recovery of Credit (SPARC)</p> 	<p>BCPS high school students access self-paced blended courses in their high school SPARC program to:</p> <ul style="list-style-type: none"> • Earn original high school credits for graduation • Recover high school credits for graduation • Expand their range of courses and opportunities. • Accommodate schedules that prevent them from taking a course when it is offered. <p>The following mathematics courses are offered through SPARC: Algebra 1, Geometry, Algebra 2, Statistics and Probability, PreCalculus, AP Calculus AB. Students and families interested in this program should contact their school counselor.</p>
<p style="text-align: center;">Maryland Virtual Learning Opportunities (MLVO)</p> 	<p>The Office of Educational Opportunities supports schools by providing high quality learning options for students to access high school online courses outside of current school offerings, schedules, and locations. Credit toward a Maryland high school diploma can only be awarded for MSDE-approved online courses (COMAR 13A.03.02.05D (1)). An online course is one that is provided by internet and other technologies in which 80% or more of instruction is conducted online with the teacher and student separated by distance or time or both and in which two-way communication between the teacher and student is required. BCPS students can access online courses to:</p> <ul style="list-style-type: none"> • Earn high school credits. • Expand their range of courses and opportunities. • Accommodate schedules that prevent them from taking a course when it is offered. <p>The following mathematics courses are offered through MVLO: Algebra 1, Geometry, Algebra 2, Statistics and Probability, AP Calculus AB, AP Calculus BC, and AP Statistics. Students and families interested in this program should contact their school counselor.</p>

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Program	Description
<p>Early College Access Programs</p> 	<p><i>Dual Enrollment</i> refers to a series of programs in which a student is dually enrolled in a BCPS high school and a Maryland University System college or university. Below is a list of the different Dual Enrollment programs offered to BCPS students. Visit the BCPS Office of College and Career Readiness' website for more information about these programs.</p> <ul style="list-style-type: none"> • Tuition Free Program • Dual Credit Program: Current list of CCBC/BCPS Dual Credit Courses. • Diploma to Degree Program (D2D) • Diploma to Career Program (D2C) • On-Location Courses • The Early College Magnet Program (ECP) at Woodlawn High School (WHS): Visit the BCPS Magnet Programs website for more information. • The Pathways to Technology Early College High School (P-TECH) at Dundalk High School (DHS) and Owings Mills High School (OMHS) <p>Students and families interested in this program should contact their school counselor.</p>