

MCPS Secondary Mathematics
 Name of Course FY25 Pacing Calendar

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MCPS Secondary Mathematics Honors Precalculus Pacing Calendar 2024-2025

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<p>PreK-12 Math Instructional Priorities</p> <p><u>Priority Area #1:</u> STUDENTS critically think, do, and collaborate about the math.</p> <p><u>Priority Area #2:</u> TEACHERS consistently release control.</p> <p><u>Priority Area #3:</u> TEACHERS engage in effective curriculum study and progress monitoring.</p>	<p>District Assessment Information</p> <ul style="list-style-type: none"> ● MP1 District Assessment: Unit 1 Topics 2 - 3 ● MP2 District Assessment: Unit 2 Topics 1 - 2 ● MP3 District Assessment: Unit 3 Topics 3 - 4 ● MP4 District Assessment: Unit 6 Topic 2
<p>Resources</p> <ul style="list-style-type: none"> ● MSDE College and Career Ready Standards for Precalculus: Defines what students should understand and be able to do in their study of Precalculus. ● Precalculus Instructional Guide: MCPS Curriculum 2.0 ● C2.0 Precalculus & Honors Precalculus Resource Folder ● Using the 5 Practices in Teaching Mathematics ● Math Language Routines ● Blank Calendar for printing 	<p>Bookmarks</p> <ul style="list-style-type: none"> ● Marking Period 1: 46 Full Days* of Instruction ● Marking Period 2: 46 Full Days* of Instruction ● Marking Period 3: 40 Full Days* of Instruction ● Marking Period 4: 45 Full Days* of Instruction <p><i>*Does not include early release days</i></p>

Unit Overviews

Unit	Full Days Given	Required Lessons	Required Assessments
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Unit 1: Polynomial, Power, and Rational Functions	48	35	4
Unit 2: Exponential and Logarithmic Functions	25	18	2
Unit 3: Trigonometric Functions	33	30	4
Unit 4: Vectors, Parametrics, and Polars	27	27	3
Unit 6: Discrete Math	21	18	2
Unit 5: System and Matrices	18	18	2

Marking Period 1

Bookmarks & Hyperlinks: [MP1](#) | [MP2](#) | [MP3](#) | [MP4](#) | [Top of Document](#)

Monday	Tuesday	Wednesday	Thursday	Friday
8/26 First Day of School	8/27 Unit 1: Polynomials, Power, and Rationals Functions.	8/28 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	8/29 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	8/30 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits
9/2 Holiday School System Closed	9/3 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition	9/4 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition	9/5 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition	9/6 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition

	of Functions/Limits	of Functions/Limits	of Functions/Limits	of Functions/Limits
9/9 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	9/10 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	9/11 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	9/12 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	9/13 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits
9/16 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	9/17 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	9/18 Unit 1 Topic 1 – Piecewise-Defined Functions/Composition of Functions/Limits	9/19 Unit 1 Topic 1 Formative Assessment	9/20 Unit 1 Topic 2 – Power Functions
9/23 Unit 1 Topic 2 – Power Functions	9/24 Unit 1 Topic 2 – Power Functions	9/25 Unit 1 Topic 2 – Power Functions	9/26 Unit 1 Topic 2 Formative Assessment	9/27 Early Release Day
9/30 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/1 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/2 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/3 Non-Instructional Day No school for students and teachers	10/4 Unit 1 Topic 3 – Graphs of Rational Functions Extended

10/7 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/8 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/9 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/10 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/11 Unit 1 Topic 3 – Graphs of Rational Functions Extended
10/14 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/15 Unit 1 Topic 3 – Graphs of Rational Functions Extended	10/16 District Assessment: Unit 1 Topic 2-3 Formative Assessment	10/17 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/18 Professional Day for Teachers <i>Possible instructional day due to emergency closure</i>
10/21 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/22 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/23 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/24 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/25 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions
10/28 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/29 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/30 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	10/31 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions	11/1 Unit 1 Topic 4 - The Algebra of Rational Expressions/Equations /Inequalities/Partial Fractions

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11/18 Unit 2 Topic 1 - Extensions to any Base/Laws of Logarithms/Change of Base	11/19 Unit 2 Topic 1 - Extensions to any Base/Laws of Logarithms/Change of Base	11/20 Unit 2 Topic 1 - Extensions to any Base/Laws of Logarithms/Change of Base	11/21 Unit 2 Topic 1 - Extensions to any Base/Laws of Logarithms/Change of Base	11/22 Unit 2 Topic 1 Formative Assessment
11/25 Early Release Day	11/26 Early Release Day	11/27 Systemwide Closure	11/28 Holiday School System Closed	11/29 Holiday School System Closed
12/2 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/3 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/4 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/5 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/6 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations
12/9 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/10 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/11 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/12 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations	12/13 Unit 2 Topic 2 - Solving Exponential and Logarithmic Equations
12/16 Unit 2 Topic 2 - Solving Exponential and	12/17 Unit 2 Topic 2 - Solving Exponential and	12/18 Unit 2 Topic 2 - Solving Exponential and	12/19 Unit 2 Topic 2 - Solving Exponential and	12/20 District Assessment: Unit 2 Topics 1-2.

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Logarithmic Equations	Logarithmic Equations	Logarithmic Equations	Logarithmic Equations	
12/23 Non-Instructional Day No school for students and teachers	12/24 Holiday School System Closed	12/25 Holiday School System Closed	12/26 Non-Instructional Day No school for students and teachers	12/27 Non-Instructional Day No school for students and teachers
12/30 Systemwide Closure	12/31 Systemwide Closure	1/1 Holiday School System Closed	1/2 Unit 3: Trigonometric Functions	1/3 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions
1/6 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions	1/7 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions	1/8 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions	1/9 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions	1/10 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions
1/13 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions	1/14 Unit 3 Topic 1 - Special Angles and Reciprocal Trigonometric Functions	1/15 Unit 3 Topic 1 Formative Assessment	1/16 Unit 3 Topic 2 - Inverse Trigonometric Functions	1/17 Unit 3 Topic 2 - Inverse Trigonometric Functions

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1/20 Holiday <i>School System Closed</i>	1/21 Unit 3 Topic 2 – Inverse Trigonometric Functions	1/22 Unit 3 Topic 2 – Inverse Trigonometric Functions	1/23 Unit 3 Topic 2 – Inverse Trigonometric Functions	1/24 Unit 3 Topic 2 – Inverse Trigonometric Functions
1/27 Unit 3 Topic 2 – Inverse Trigonometric Functions	1/28 Unit 3 Topic 2 Formative Assessment	1/29 End of Quarter Grading/Planning <i>Possible instructional day due to emergency closure</i>	Notes: District Assessment <ul style="list-style-type: none"> • Unit 2 Topics 1 - 2 	

<h2 style="text-align: center;">Marking Period 3</h2> <p style="text-align: center;">Bookmarks & Hyperlinks: MP1 MP2 MP3 MP4 Top of Document</p>				
Monday	Tuesday	Wednesday	Thursday	Friday
1/27 Unit 3 Topic 2 – Inverse Trigonometric Functions	1/28 Unit 3 Topic 2 Formative Assessment	1/29 End of Quarter Grading/Planning <i>Possible instructional day due to emergency closure</i>	1/30 Unit 3 Topic 3 – Trigonometric Identities and Equations	1/31 Unit 3 Topic 3 – Trigonometric Identities and Equations

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2/3 Unit 3 Topic 3 - Trigonometric Identities and Equations	2/4 Unit 3 Topic 3 - Trigonometric Identities and Equations	2/5 Unit 3 Topic 3 - Trigonometric Identities and Equations	2/6 Unit 3 Topic 3 - Trigonometric Identities and Equations	2/7 Unit 3 Topic 3 - Trigonometric Identities and Equations
2/10 Unit 3 Topic 3 - Trigonometric Identities and Equations	2/11 Unit 3 Topic 3 - Trigonometric Identities and Equations	2/12 Unit 3 Topic 3 Formative Assessment	2/13 Unit 3 Topic 4 - Laws of Sines and Cosines	2/14 Unit 3 Topic 4 - Laws of Sines and Cosines
2/17 Holiday School System Closed	2/18 Unit 3 Topic 4 - Laws of Sines and Cosines	2/19 Unit 3 Topic 4 - Laws of Sines and Cosines	2/20 Unit 3 Topic 4 - Laws of Sines and Cosines	2/21 District Assessment: Unit 3 Topics 3-4.
2/24 Unit 4: Vectors, Parametrics, and Polars	2/25 Unit 4 Topic 1 - The Algebra of Vectors	2/26 Unit 4 Topic 1 - The Algebra of Vectors	2/27 Unit 4 Topic 1 - The Algebra of Vectors	2/28 Early Release Day
3/3 Unit 4 Topic 1 - The Algebra of Vectors	3/4 Unit 4 Topic 1 - The Algebra of Vectors	3/5 Unit 4 Topic 1 - The Algebra of Vectors	3/6 Unit 4 Topic 1 - The Algebra of Vectors	3/7 Unit 4 Topic 1

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				Formative Assessment
3/10 Unit 4 Topic 2 - Parametrically-Defined Functions	3/11 Unit 4 Topic 2 - Parametrically-Defined Functions	3/12 Unit 4 Topic 2 - Parametrically-Defined Functions	3/13 Unit 4 Topic 2 - Parametrically-Defined Functions	3/14 Unit 4 Topic 2 - Parametrically-Defined Functions
3/17 Unit 4 Topic 2 Formative Assessment	3/18 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	3/19 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	3/20 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	3/21 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form
3/24 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	3/25 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	3/26 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	3/27 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	3/28 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form
3/31 End of Quarter Grading/Planning <i>Possible instructional day due to emergency closure</i>	Notes: District Assessment <ul style="list-style-type: none"> • Unit 3 Topics 3 - 4 			

Marking Period 4

Bookmarks & Hyperlinks: [MP1](#) | [MP2](#) | [MP3](#) | [MP4](#) | [Top of Document](#)

Monday	Tuesday	Wednesday	Thursday	Friday
	4/1 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	4/2 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	4/3 Unit 4 Topic 3 - Polar Curves/Complex Numbers in Polar Form	4/4 Unit 4 Topic 3 Formative Assessment
4/7 Unit 6: Discrete Math	4/8 Unit 6 Topic 1 - Combinatorics/Binomial Theorem	4/9 Unit 6 Topic 1 - Combinatorics/Binomial Theorem	4/10 Unit 6 Topic 1 - Combinatorics/Binomial Theorem	4/11 Unit 6 Topic 1 - Combinatorics/Binomial Theorem
4/14 Non-Instructional Day <i>No school for students and teachers</i>	4/15 Non-Instructional Day <i>No school for students and teachers</i>	4/16 Systemwide Closure	4/17 Systemwide Closure	4/18 Holiday <i>School System Closed</i>
4/21 Holiday <i>School System Closed</i>	4/22 Unit 6 Topic 1 - Combinatorics/Binomial Theorem	4/23 Unit 6 Topic 1 - Combinatorics/Binomial Theorem	4/24 Unit 6 Topic 1 - Combinatorics/Binomial Theorem	4/25 Unit 6 Topic 1 - Combinatorics/Binomial Theorem
4/28	4/29	4/30	5/1	5/2

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Unit 6 Topic 1 - Combinatorics/Binomial Theorem	Unit 6 Topic 1 Formative Assessment	Unit 6 Topic 2 - Sequences and Series	Unit 6 Topic 2 - Sequences and Series	Unit 6 Topic 2 - Sequences and Series
5/5 Unit 6 Topic 2 - Sequences and Series	5/6 Unit 6 Topic 2 - Sequences and Series	5/7 Unit 6 Topic 2 - Sequences and Series	5/8 Unit 6 Topic 2 - Sequences and Series	5/9 Unit 6 Topic 2 - Sequences and Series
5/12 Unit 6 Topic 2 - Sequences and Series	5/13 Unit 6 Topic 2 - Sequences and Series	5/14 District Assessment: Unit 6 Topic 2	5/15 Unit 5: Systems and Matrices	5/16 Unit 5 Topic 1 - The Algebra of Matrices
5/19 Unit 5 Topic 1 - The Algebra of Matrices	5/20 Unit 5 Topic 1 - The Algebra of Matrices	5/21 Unit 5 Topic 1 - The Algebra of Matrices	5/22 Unit 5 Topic 1 - The Algebra of Matrices	5/23 Unit 5 Topic 1 - The Algebra of Matrices
5/26 Holiday School System Closed	5/27 Unit 5 Topic 1 - The Algebra of Matrices	5/28 Unit 5 Topic 1 - The Algebra of Matrices	5/29 Unit 5 Topic 1 - The Algebra of Matrices	5/30 Unit 5 Topic 1 Formative Assessment

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6/2 Unit 5 Topic 2 - Applications of Matrices	6/3 Unit 5 Topic 2 - Applications of Matrices	6/4 Unit 5 Topic 2 - Applications of Matrices	6/5 Unit 5 Topic 2 - Applications of Matrices	6/6 Professional Day for Teachers <i>Possible instructional day due to emergency closure</i>
6/9 Unit 5 Topic 2 - Applications of Matrices	6/10 Unit 5 Topic 2 - Applications of Matrices	6/11 Unit 5 Topic 2 Formative Assessment	6/12 End of Year Projects	6/13 Last Day of School Early Release Day
6/16 End of Quarter Grading/Planning <i>Possible instructional day due to emergency closure</i>	6/17 <i>Possible instructional day due to emergency closure</i>	6/18 <i>Possible instructional day due to emergency closure</i>	6/19 Systemwide Closure	6/20 <i>Possible instructional day due to emergency closure</i>
6/23 <i>Possible instructional day due to emergency closure</i>	Notes: District Assessment <ul style="list-style-type: none"> Unit 6 Topic 2 			