# Secondary Math Sequencing 2021-2022 (High School Courses)

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<th>Course</th>
<th>Algebra 1</th>
<th>IM 2</th>
<th>IM 3</th>
<th>IM 4 Statistics</th>
<th>Pre-Calculus</th>
<th>Calculus</th>
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| A. 1st Unit | One-Variable Statistics  
Unit 1 | Functions, Equations, 
& Systems  
Unit 1 | Inequalities & Linear Programming  
Unit 2 | Exploring Data  
Chapter 1 | Functions & Their Graphs  
Chapter 1 | Prerequisites for Calculus  
Chapter 1 |
| B. 2nd Unit | Linear Equations,  
Inequalities, & Systems  
Unit 2 | Supplemental Geometry Unit  
(Indirect Proofs using Transversals and Quadrilaterals) | Polynomial & Rational Functions  
Unit 5 | Functions & Models  
Chapter 2 | Polynomial & Rational Functions  
Chapter 2 | Trigonometry Review from Pre-Calculus |
| C. 3rd Unit | Two-Variable Statistics  
Unit 3 | Coordinate Methods  
Unit 3  
(Coordinate Geometry of Quadrilaterals and Transformations) | Circles & Circular Functions  
Unit 6  
Mid-Term | Trigonometric Functions  
Chapter 4  
Trigonometry  
Chapter 5  
Mid-Term | Exponential & Logarithmic Functions  
Chapter 3  
Mid-Term | Limits and Continuity  
Chapter 2 |
| D. 4th Unit | Functions  
Unit 4  
Mid-Term | Circles & Circular Functions  
Unit 6 from IM3 | Inverse Functions  
Unit 8 | Counting, Probability, and Inference  
Chapter 6 | Trigonometric Functions  
Chapter 4 | Derivatives  
Chapter 3  
Mid-Term |
| E. 5th Unit | Introduction to Exponential Functions  
Unit 5 | Nonlinear Functions & Equations  
Unit 5  
(Quadratics and Systems of Nonlinear Equations) | Similarity & Congruence  
Unit 3 | Roots, Powers, and Logarithms  
Chapter 9  
Final | Analytic Trigonometry  
Chapter 5  
Additional Topics in Trigonometry  
Chapter 6 | More Derivatives  
Chapter 4 |
| F. 6th Unit | Introduction to Quadratic Functions  
Unit 6 | Trigonometric Methods  
Unit 7  
(Right Triangle Trigonometry) | Reasoning & Proof  
Unit 1  
Final | Sequences, Series, and Probability  
Chapter 8 | Applications of Derivatives  
Chapter 5 |
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<th>Quadratic Equations Unit 7</th>
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<th>Topics in Analytic Geometry Chapter 9 (9.1, 9.2)</th>
<th>Differential Equations and Mathematical Modeling Chapter 7</th>
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<td></td>
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<td>Final</td>
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<td>8th Unit</td>
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<td>Limits &amp; Introduction to Calculus Chapter 11 (Honors only) Final</td>
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### Spring Assessments to Consider Impact On:

#### 7th/8th Graders:
- Smarter Balance 7 or 8 Performance Plus Algebra 1
- Performance Plus IM2

#### 8th Graders:
- Smarter Balance 8 Performance Plus IM2
- PSAT/NMSQT Performance Plus IM2

#### 9th or 10th Graders:
- PSAT/NMSQT Performance Plus IM2

#### High Schoolers:
- PSAT/NMSQT/SAT Performance Plus IM3
- PSAT/NMSQT/SAT Performance Plus Pre-Calculus Accuplacer
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