

**Avon School
Mathematics Curriculum**

Kindergarten

The Kindergarten instructional time and curriculum focuses on five critical areas: (1) counting and cardinality and number sense; (2) numbers and operation in base 10; (3) addition up to 10; (4) subtraction within 10; (5) measurement and data collection; (6) reasoning about attributes of, and composing and decomposing geometric shapes.

*Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.
Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.*

Unit Title	Timeframe	New Jersey Student Learning Standards
<i>Counting and Cardinality</i>	<i>September-October</i>	<i>K.CC.A.1, K.CC.A.2, K.CC.A.3, K.CC.B.4.a, K.CC.B.4.b, K.CC.B.4.c, K.CC.C.5, K.CC.C.6, K.CC.C.7</i>
<i>Numbers and Operation in Base 10</i>	<i>November-December</i>	<i>K.NBT.A.1</i>
<i>Operations and Algebraic Thinking: Addition Up to 10</i>	<i>January-February</i>	<i>K.OA.A.1, K.OA.A.2, K.OA.A.3, K.OA.A.4, K.OA.A.5</i>
<i>Operations and Algebraic Thinking: Subtraction Within 10</i>	<i>March-April</i>	<i>K.OA.A.1, K.OA.A.2, K.OA.A.3, K.OA.A.5</i>
<i>Measurement and Data</i>	<i>May</i>	<i>K.MD.A.1, K.MD.A.2, K.MD.B.3</i>
<i>Geometry</i>	<i>June</i>	<i>K.G.A.1, K.G.A.2, K.G.A.3, K.G.B.4, K.G.B.5, K.G.B.6</i>

**Avon School
Mathematics Curriculum**

Grade 1

Curriculum Overview

The grade one instructional time and curriculum focuses on four critical areas: (1) developing understanding of addition, subtraction, and strategies for addition and subtraction within 20; (2) developing understanding of whole number relationships and place value, including grouping in tens and ones; (3) developing understanding of linear measurement and measuring lengths as iterating length units; and (4) reasoning about attributes of, and composing and decomposing geometric shapes.

Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.

Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.

Unit Title	Timeframe	New Jersey Student Learning Standards
<i>Addition and Subtraction to 12</i>	<i>September-November</i>	<i>1.OA.A.1, 1.OA.A.2, 1.OA.B.3, 1.OA.B.4, 1.OA.D.7, 1.OA.D.8</i>
<i>Addition and Subtraction to 20</i>	<i>November- January</i>	<i>1.OA.C.5, 1.OA.C.6, 1.OA.D.7, 1.OA.D.8</i>
<i>Number and Operations in Base 10</i>	<i>January- April</i>	<i>1.NBT.A.1, 1.NBT.B.2, 1.NBT.B.3, 1.NBT.C.4, 1.NBT.C.5, 1.NBT.C.6</i>
<i>Time & Measurement & Data</i>	<i>May</i>	<i>1.MD.A.1, 1.MD.A.2, 1.MD.B.3, 1.MD.C.4</i>
<i>Geometry & Fractions</i>	<i>May- June</i>	<i>1.G.A.1, 1.G.A.2, 1.G.A.3</i>

**Avon School
Mathematics Curriculum**

Grade 2

Curriculum Overview

Math instruction will focus on four critical areas: extending understanding of base-ten notation, building fluency with addition and subtraction, using standard units of measure, and describing and analyzing shapes.

Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.

Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.

Unit Title	Timeframe	New Jersey Student Learning Standards
Operations & Algebraic Thinking	September–October	2.OA.A.1, 2.OA.A.2, 2.OA.A.3, 2.OA.B.2, 2.OA.C.3, 2.OA.C.4
Number & Operations in Base Ten	November–March	2.NBT.A.1, 2.NBT.A.2, 2.NBT.A.3, 2.NBT.A.4, 2.NBT.B.5, 2.NBT.B.6, 2.NBT.B.7
Measurement & Data	April–May	2.MD.A.1, 2.MD.A.2, 2.MD.A.3, 2.MD.A.4, 2.MD.B.5, 2.MD.B.6, 2.MD.C.7, 2.MD.C.8, 2.MD.D.9, 2.MD.D.10 ,
Geometry	June	2.G.A.1, 2.G.A.2, 2.G.A.3

Avon School Mathematics Curriculum

Grade 3

Curriculum Overview

In Grade 3, the curriculum and instructional time focuses on four critical areas: (1) developing understanding of multiplication and division and strategies for multiplication and division within 100; (2) developing understanding of fractions, especially unit fractions (fractions with numerator 1); (3) developing understanding of the structure of rectangular arrays and of area; and (4) describing and analyzing two-dimensional shapes.

The topics within this map are color coded to display the domains in which they correlate:

*Operations and Algebraic Thinking
Number and Operations in Base Ten
Numbers and Operations- Fractions
Measurement and Data
Geometry*

Reference: New Jersey Department of Education. *New Jersey Student Learning Standards, 2016.*
Reference: New Jersey Department of Education Division of Teaching and Learning. *Curricular Framework, 2016.*

Topic Title	Timeframe	New Jersey Student Learning Standards
Understand Multiplication and Division of Whole Numbers	September - 10 days	3.OA.A.1, 3.OA.A.2, 3.OA.A.3, 3.OA.B.5
Multiplication Facts: Use Patterns	September / October- 9 days	3.OA.A.1, 3.OA.A.3, 3.OA.B.5, 3.OA.D.9
Apply Properties: Multiplication Facts for 3, 4, 6, 7, 8	October / November - 11 days	3.OA.A.3, 3.OA.B.5, 3.OA.D.9
Use Multiplication to Divide: Division Fact	November - 12 days	3.OA.A.3, 3.OA.A.4, 3.OA.B.5, 3.OA.A.6, 3.OA.D.8, 3.OA.D.9
Fluently Multiply and Divide Within 100	December - 11 days	3.OA.A.3, 3.OA.C.7, 3.OA.D.9
Connect Area to Multiplication and Addition	January - 10 days	3.MD.C.5, 3.MD.C.6, 3.MD.C.7
Solve Perimeter Problems	January - 7 days	3.MD.D.8, 3.MD.C.7
Represent and Interpret Data	February - 8 days	3.MD.B.3, 3.OA.A.3, 3.OA.D.8
Use Strategies and Properties to Add and Subtract	February - 12 days	3.NBT.A.1, 3.NBT.A.2, 3.OA.D.9
Fluently Add and Subtract Within 1,000	March - 11 days	3.NBT.A.2
Multiply by Multiples of 10	March - 7 days	3.NBT.A.3
Use Operations with Whole Numbers to Solve Problems	March - 7 days	3.OA.D.8
Understand Fractions as Numbers	April - 11 days	3.NF.A.1, 3.NF.A.2, 3.NF.A.3, 3.MD.B.4, 3.G.A.2
Fraction Equivalence and Comparison	April - 11 days	3.NF.A.3
Solve Time, Capacity, and Mass Problems	May - 11 days	3.MD.A.1, 3.MD.A.2
Attributes of Two-Dimensional Shapes	May - 12 days	3.G.A.1

Avon School Mathematics Curriculum

Grade 4

Curriculum Overview

The Grade 4 Mathematics Curriculum will focus on three critical areas: (1) developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends; (2) developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers; (3) understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry.

Operations and Algebraic Thinking
Number and Operations in Base Ten
Number and Operations-Fractions
Measurement and Data
Geometry

Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.
 Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.

Topic Title	Timeframe	New Jersey Student Learning Standards
1. Generalize Place Value Understanding	September-15 days	4.NBT.A.2,4.NBT.A.1,4.NBT.A.3
2. Fluently Add and Subtract Multi-Digit Whole Numbers	September-October--10Days	4.NBT.B.4,4.OA.A.3,
3. Use Strategies and Properties to Multiply by 1-Digit Numbers	October-15 Days	4.NBT.B.5,4.OA.A.3
4. Use Strategies and Properties to Multiply by 2-Digit Numbers	October-November--15 Days	4.NBT.B.5,4.OA.A.3
5. Use Strategies and Properties to Divide by 1-Digit Numbers	November-December 12 Days	4.NBT.B.6,4.OA.A.3
6. Use Operations with Whole Numbers to Solve Problems	December-7 Days	4.OA.A.1,4.OA.A.2,4.NBT.B.5,4.NBT.B.6,4.OA.A.3
7. Factors and Multiples	January- 15 Days	4.OA.B.4,4.NBT.B.5,
8. Extend Understanding of Fraction Equivalence and Ordering	February- 10 Days	4.NF.A.1,4.NF.A.2
9. Understand Addition and Subtraction of Fractions	February- 13 Days	4.NF.B.3a,4.NF.B.3b,4.NF.B.3d,4.NF.B.3c,
10. Extend Multiplication Concepts to Fractions	March-8 Days	4.NF.B.4a,4.NF.B.4b,4.NF.B.4c,4.MD.A.2,
11. Represent and Interpret Data on Line Plots	February-6 Days	4.MD.B.4,4.NF.A.1,4.NF.B.3d
12. Understand and Compare Decimals	March-8 Days	4.NF.C.6,4.NF.C.7,4.MD.A.2,4.NF.C.5,
13. Measurement: Find Equivalence in Units of Measure	February-March--9 Days	4.MD.A.1,4.MD.A.2,4.NF.B.3d,4.NF.B.4c,4.MD.A.3,4.NBT.B.5,4.NBT.B.4
14. Algebra: Generate and Analyze Patterns	March-7 Days	4.OA.C.5
15. Geometric Measurement: Understand Concepts of Angles and Angle Measurement	March-April--10 Days	4.MD.C.5,4.G.A.1,4.MD.C.5a,4.MD.C.5b,4.MD.C.6,4.MD.C.7,
16. Lines, Angles, and Shapes	April-May--10 Days	4.G.A.1,4.G.A.2,4.G.A.3

Avon School Mathematics Curriculum

Grade Level 5

Curriculum Overview

The Grade 5 Mathematics Curriculum focuses on three critical areas. The first is developing fluency with addition and subtraction of fractions, and developing understanding of the multiplication of fractions and division of fractions in limited cases (unit fractions divided by whole numbers divided by unit fractions). The second is extending division to 2-digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimal operations. The last area is developing understanding of volume.

The topics within this map are color coded to display the domains in which they correlate:

Operations and Algebraic Thinking
Number and Operations in Base Ten
Numbers and Operations- Fractions
Measurement and Data
Geometry

Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.
Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.

Topic Titles	Timeframe	New Jersey Student Learning Standards
Topic 1: Understand Place Value	10 days (September)	5.NBT.A.1, 5.NBT.A.2, 5.NBT.A.3, 5.NBT.A.4
Topic 2: Add and Subtract Decimals to Hundredths	10 days (September)	5.NBT.B.7
Topic 3: Fluently Multiply Multi-Digit Whole Numbers	10 days (October)	5.NBT.A.2, 5.NBT.B.5
Topic 4: Use Models and Strategies to Multiply Decimals	12 days (October-November)	5.NBT.A.2, 5.NBT.B.7
Topic 5: Use Models and Strategies to Divide Whole Numbers	10 days (November-December)	5.NBT.B.6
Topic 6: Use Models and Strategies to Divide Decimals	12 days (December-January)	5.NBT.A.2, 5.NBT.B.7
Topic 7: Use Equivalent Fractions to Add and Subtract Fractions	14 days (January)	5.NF.A.1, 5.NF.A.2
Topic 8: Apply Understanding of Multiplication	12 days (February)	5.NF.B.4, 5.NF.B.5, 5.NF.B.6
Topic 9: Apply Understanding of Division to Divide Fractions	12 days (February)	5.NF.B.3, 5.NF.B.7
Topic 10: Understand Volume Concepts	9 days (March)	5.MD.C.3, 5.MD.C.4, 5.MD.C.5
Topic 11: Convert Measurements	10 days (April)	5.MD.A.1, 5.NBT.A.2, 5.NBT.B.5
Topic 12: Represent and Interpret	7 days (April)	5.MD.B.2, 5.NF.A.2, 5.NF.B.6
Topic 13: Algebra: Write and Interpret Numerical Expressions	7 days (May)	5.OA.A.1 5.OA.A.2
Topic 14: Graph Points on the Coordinate Plane	7 days (May)	5.G.A.1, 5.G.A.2
Topic 15: Algebra: Analyze Patterns and Relationships	7 days (June)	5.O.A.B.3
Topic 16: Geometric Measurement: Classify Two-Dimensional Figures	7 days (June)	5.G.B.3 5.G.B.4

Avon School Mathematics Curriculum

Grade 6

Curriculum Overview

In grade 6, instructional time should focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking.

The topics within this map are color coded to display the domains in which they correlate:

Ratios and Proportional Relationships

The Number System

Expressions and Equations

Geometry (imbedded in topics 1, 2, and 4)

Statistics and Probability

Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.
Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.

Topic Title	Timeframe	New Jersey Student Learning Standards
<i>Fluently Add, Subtract, Multiply, and Divide Decimals</i>	<i>September</i>	<i>6.NS.B2, 6.NS.B3</i>
<i>Common Factors and Multiples</i>	<i>September</i>	<i>6.NS.B4</i>
<i>Algebra: Understand Numerical and Algebraic Expressions (include topics 13 & 14)</i>	<i>October</i>	<i>6.EE.A1, 6.EE.A2, 6.EE.A3, 6.EE.A4, 6.EE.B6, 6.G.A2</i>
<i>Algebra: Solve Equations and Inequalities (include topics 13 & 14)</i>	<i>November</i>	<i>6.EE.B5, 6.EE.B7, 6.EE.B8, 6.G.A1, 6.EE.B6</i>
<i>Rational Numbers</i>	<i>December</i>	<i>6.NS.C5, 6.NS.C6, 6.NS.C7</i>
<i>Algebra: Coordinate Geometry (include topics 13 & 14)</i>	<i>December</i>	<i>6.G.A1, 6.G.A2, 6.G.A3, 6.G.A4, 6.NS.C6, 6.NS.C7, 6.NS.C8</i>
<i>Algebra: Patterns and Equations</i>	<i>January</i>	<i>6.EE.C9</i>
<i>Ratio Concepts and Reasoning</i>	<i>January - February</i>	<i>6.RP.A1, 6.RP.A2, 6.RP.A3a, 6.RP.A3b, 6.RP.A3d</i>
<i>Ratio Concepts: Rates</i>	<i>February - March</i>	<i>6.RP.A2, 6.RP.A3b, 6.RP.A3d, 6.RP.A3a</i>
<i>Ratio Concepts: Percent</i>	<i>March</i>	<i>6.RP.A3c</i>
<i>Divide Fractions by Fractions (review fluently dividing whole numbers)</i>	<i>April</i>	<i>6.NS.A1, 6.NS.B2, 6.EE.A2c, 6.EE.B7</i>
<i>Measures of Center and Variability</i>	<i>April - May</i>	<i>6.SP.A, 6.SP.B.5c</i>
<i>Topic 16: Display and Summarize Data</i>	<i>May - June</i>	<i>6.SP.A.2, 6.SP.B4, 6.SP.B.5b, 6.SP.B.5c, 6.SP.B.5d</i>

Avon School Mathematics Curriculum

Grade 7

Curriculum Overview

In grade 7, instructional time should focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; (4) drawing inferences about populations based on samples.

The topics within this map are color coded to display the domains in which they correlate:

Ratios and Proportional Relationships

The Number System

Expressions and Equations

Geometry

Statistics and Probability

*Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.
Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.*

Topic Title	Timeframe	New Jersey Student Learning Standards
<i>Operations w/ Rational Numbers</i>	<i>September</i>	<i>7.NS.A1, 7.NS.A2, 7.NS.A3</i>
<i>Decimals & Percents</i>	<i>September</i>	<i>7.NS.A2d, 7.NS.A3, 7.EE.A2</i>
<i>Rational & Irrational Numbers</i>	<i>September - October</i>	<i>7.EE.A1</i>
<i>Ratios & Rates</i>	<i>October</i>	<i>7.RP.A1, 7.RP.A2c</i>
<i>Proportional Relationships</i>	<i>October - November</i>	<i>7.RP.A2, 7.G.A1</i>
<i>Percents</i>	<i>November</i>	<i>7.RP.A.2b, 7.RP.A.2c, 7.RP.A3, 7.NS.A3</i>
<i>Equivalent Expressions</i>	<i>December</i>	<i>7.EE.B3</i>
<i>Equations & Linear Equations</i>	<i>December-January</i>	<i>7.EE.B3, 7.EE.B4, 7.EE.B4a</i>
<i>Inequalities</i>	<i>January</i>	<i>7.EE.B4b</i>
<i>Proportional Relationships, Lines, and Linear Equations</i>	<i>February</i>	<i>7.RP.A2b, 7.RP.A2d, 7.RP.A2a</i>
<i>Sampling & Comparing Two Populations</i>	<i>February - March</i>	<i>7.SP.A, 7.SP.B</i>
<i>Probability Concepts</i>	<i>March - April</i>	<i>7.SP.C.5, 7.SP.C.6, 7.SP.C.7, 7.SP.C.8, 7.EE.B.3</i>
<i>Compound Events</i>	<i>April</i>	<i>7.SP.C.6, 7.SP.C.8, 7.EE.B.3</i>
<i>Circles</i>	<i>May</i>	<i>7.EE.B.3, 7.EE.B.4, 7.EE.B.4a, 7.G.A.2, 7.G.B.4</i>
<i>Angles</i>	<i>May</i>	<i>7.G.A.2, 7.G.B.5, 7.EE.B.4, 7.EE.B.4a</i>
<i>2- and 3- Dimensional Shapes</i>	<i>June</i>	<i>7.G.B6, 7.G.A2</i>

Avon School Mathematics Curriculum

Grade 8

Curriculum Overview

In grade 8, instructional time should focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

The topics within this map are color coded to display the domains in which they correlate:

The Number System
Expressions and Equations
Functions
Geometry
Statistics and Probability

Reference: New Jersey Department of Education. *New Jersey Student Learning Standards, 2016.*
 Reference: New Jersey Department of Education Division of Teaching and Learning. *Curricular Framework, 2016.*

Topic Title	Timeframe	New Jersey Student Learning Standards
Rational & Irrational Numbers	September	8.NS.A1, 8.NS.A2, 8.EE.A.2
Integer Exponents (Include topic 13)	September	8.EE.A1, 8.EE.A2, 8.G.C9
Scientific Notation	September - October	8.EE.A3, 8.EE.A4
Linear Equations in One Variable	October	8.EE.C7a, 8.EE.C7b
Proportional Relationships, Lines, and Linear Equations	November	8.EE.B5, 8.EE.B6
Systems of Two Linear Equations	November - December	8.EE.C8a, A.EE.C8b, 8.EE.C8c
Defining and Comparing Functions	December - January	8.F.A1, 8.F.A3, 8.F.B5
Linear Functions	January	8.F.A.1, 8.F.A2, 8.F.A3, 8.F.B4, 8.F.B5
Congruence	January - February	8.G.A1, 8.G.A2, 8.G.A3
Similarity	February	8.G.A1, 8.G.A3, 8.G.A4, 8.EE. B6
Reasoning in Geometry	March	8.G.A3, 8.G.A4, 8.G.A5
Using the Pythagorean Theorem	April	8.EE.A2, 8.G.B6, 8.G.B7, 8.G.B8, 8.G.C9
Surface Area & Volume	April - May	8.G.B.7, 8.G.C.9, 8.EE.A.2
Scatter Plots	May	8.SP.A1, 8.SP.A2, 8.SP.A3, 8.F.B4, 8.F.B5
Analyzing Categorical Data	June	8.SP.A4

Avon School Mathematics Curriculum

Algebra I

Curriculum Overview

In Algebra 1, instructional time should focus on three critical areas: (1) solving and using equations and inequalities to convey two expressions, rearrange formulas, and apply real-world applications; (2) connecting the relationship between functions and models to relate tables, graphs, equations, inequalities, and systems; (3) understanding the concept of a function as it relates to applications, domain and range, and identifying of different functions based on situations and function building.

The topics within this map are color coded to display the domains in which they correlate:

The Real Number System (imbedded within all chapters)

Arithmetic with Polynomials and Radical Functions

Reasoning with Equations and Inequalities

Data Analysis

Linear, Quadratic, and Exponential Models

Reference: New Jersey Department of Education. *New Jersey Student Learning Standards, 2016.*

Reference: New Jersey Department of Education Division of Teaching and Learning. *Curricular Framework, 2016.*

Chapter Title	Timeframe	New Jersey Student Learning Standards
Solving Equations	September	A-SSE.A1, A-CED.A1, A-CED.A2, A-CED.A3, A-CED.A4, A-REI.A1, A-REI.B3
Solving Inequalities	September - October	A-CED.A3, A-REI.D12
An Introduction to Functions	October - November	A-CED.A1, A-REI.D10, A-REI.D11, F-IF.A, F-IF.B, F-BF.B3
Linear Functions	November - December	A-REI.D10, A-REI.D11, F-IF.B, F-IF.C7a, F-BF.A1, F-BF.B3, F-LE.A, F-LE.B
Systems of Equations and Inequalities	December - January	A-CED.A3, A-REI.C5, A-REI.C6, A-REI.C7, A-REI.D11, A-REI.D12
Exponents and Exponential Functions	January - February	N-RN.A1, N-RN.B3, A-SSE.B3c, A-CED.A1, A-REI.D11, F-IF.B, F-IF.C7e, F-IF.C8b, F-BF.A1, F-BF.B3, F-LE.A, F-LE.B
Polynomials and Factoring	February - March	A-SSE.A2, A-SSE.B3a, A-SSE.B3b, A-APR.A1, A-APR.B3, F-IF.C7c, F-IF.8a
Quadratic Functions and Equations	March - April	A-APR.B3, A-CED.A1, A-REI.B4a, A-REI.B4b, A-REI.D11, F-IF.B, F-IF.C7a, F-IF.C7c, F-IF.C8a, F-IF.C9, F-BF.A1, F-BF.B3, F-LE.A3
Radical Expressions and Equations	April - May	N-RN.A2, A-REI.A3
Data Analysis and Probability	May - June	S-ID.A1, S-ID.A2, S-ID.A3, S-ID.B
Rational Expressions & Functions	(Time Permitted)	A-APR.D6, A-APR.D7, A-CED.A1, A-CED.A2, A-REI.A2, F-IF.A2, F-IF.B4, F-IF.B5

Avon School Mathematics Curriculum

Geometry

Curriculum Overview

In Geometry, instructional time should focus on three critical components: (1) understanding the attributes and relationships of geometric objects that can be applied in diverse contexts; (2) applying concepts of congruence, similarity, and symmetry from a geometric transformation perspective; (3) demonstrating knowledge of proofs to investigate geometric phenomena using experimental and modeling tools.

The topics within this map are color coded to display the domains in which they correlate:

Congruence
Similarity, Right Triangles, and Trigonometry
Circles
Transformations & Rigid Motions
Proofs
Modeling with Geometry
Probability

Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.
Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.

Topic Title	Timeframe	New Jersey Student Learning Standards
Intro to Geometry	September	G-CO.A1, G-CO.D12
Isometry and Transformations	September - October	G-CO.A2, G-CO.A3, G-CO.A4, G-CO.A5, G-CO.B6, G-CO.D12
Intro to Proofs	October - November	G-CO.C9, G-CO.D12
Triangles and Triangle Congruence	December	G-CO.B7, G-CO.B8, G-CO.C10, G-CO.D12
Quadrilaterals and Coordinate Proofs	January	G-GPE.B, G-CO.C11, G-CO.D12
Similarity	February	G-SRT.B, G-SRT.A, G-CO.D12
Right Triangles and Trigonometry	March	G-SRT.C, G-CO.D12
Circles	April	G-GMD.A1, G-C.A, G-C.B, G-GPE.A, G-CO.D13, G-CO.D12
Modeling in 3-Dimensions	May - June	G-GMD.A1, G-GMD.A3, G-GMD.B, G-MG.A, G-CO.D12