**GEOMETRY CURRICULUM MAP**

**UNIT 1 – Geometry Basics**

1-1 Nets and Drawings for Visualizing Geometry

CCSS.MATH.CONTENT.6.G.A.4

1-2 Points Lines and Planes

CCSS.MATH.CONTENT.4.G.A.1

CCSS.MATH.CONTENT.HSG.CO.A.1

1-3 Measuring Segments

CCSS.MATH.CONTENT.HSG.GPE.B.6

CCSS.MATH.CONTENT.HSG.CO.A.1

1-4 Measuring Angles

CCSS.MATH.CONTENT.4.MD.C.5

CCSS.MATH.CONTENT.4.MD.C.5.B

CCSS.MATH.CONTENT.4.MD.C.6

CCSS.MATH.CONTENT.HSG.CO.A.1

1-5 Exploring Angle Pairs

CCSS.MATH.CONTENT.7.G.B.5

CCSS.MATH.CONTENT.HSG.CO.C.9

1-6 Classifying Polygons

CCSS.MATH.CONTENT.5.G.B.3

CCSS.MATH.CONTENT.5.G.B.4

1-7 Midpoint and Distance in the Coordinate Plane

CCSS.MATH.CONTENT.8.G.B.7

CCSS.MATH.CONTENT.HSG.CO.C.9

CCSS.MATH.CONTENT.HSG.GPE.B.7

1-8 Perimeter Circumference and Area

CCSS.MATH.CONTENT.6.G.A.3

CCSS.MATH.CONTENT.7.G.B.4

CCSS.MATH.CONTENT.HSG.GPE.B.7

1-9 Constructions

CCSS.MATH.CONTENT.HSG.CO.D.12

**UNIT 2 – Reasoning and Proof**

2-1 Inductive and Deductive Reasoning

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning of others.

CCSS.MATH.PRACTICE.MP8 Look for and express regularity in repeated reasoning.

2-2 Logic

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning of others.

CCSS.MATH.PRACTICE.MP5 Use appropriate tools strategically.

2-3 Proving Theorems

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

CCSS.MATH.PRACTICE.MP4 Model with mathematics.

CCSS.MATH.PRACTICE.MP8 Look for and express regularity in repeated reasoning.

2-4 Algebraic Proofs

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

CCSS.MATH.PRACTICE.MP4 Model with mathematics.

CCSS.MATH.PRACTICE.MP8 Look for and express regularity in repeated reasoning.

2-5 Theorems about Angles and Perpendicular Lines

CCSS.MATH.CONTENT.HSG.CO.C.9

CCSS.MATH.CONTENT.HSG.GPE.B.5

CCSS.MATH.PRACTICE.MP4 Model with mathematics.

2-6 Planning a Proof

CCSS.MATH.CONTENT.8.G.B.6

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

CCSS.MATH.PRACTICE.MP4 Model with mathematics.

**UNIT 3 – Parallel and Perpendicular Lines**

3-1 Identify Pairs of Lines and Angles

CCSS.MATH.CONTENT.7.G.B.5

CCSS.MATH.CONTENT.HSG.CO.C.9

CCSS.MATH.CONTENT.HSG.GPE.B.5

CCSS.MATH.CONTENT.HSG.CO.B.6

3-2 Use Parallel Lines and Transversals

CCSS.MATH.CONTENT.4.G.A.1

CCSS.MATH.CONTENT.4.G.A.2

CCSS.MATH.CONTENT.HSG.CO.C.9

3-3 Prove Lines Parallel

CCSS.MATH.CONTENT.HSG.CO.A.1

CCSS.MATH.CONTENT.HSG.CO.C.9

3-4 Find and Use Slopes of Lines

CCSS.MATH.CONTENT.8.EE.B.5

CCSS.MATH.CONTENT.HSG.GPE.B.5

3-5 Right and Graph Equations of Lines

CCSS.MATH.CONTENT.8.EE.B.5

CCSS.MATH.CONTENT.8.EE.B.6

3-6 Prove Theorems about Perpendicular Lines

CCSS.MATH.CONTENT.HSG.CO.C.9

**UNIT 4 – Congruent Triangles**

4-1 Congruent Figures

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.HSG.SRT.B.5

4-2 Triangle Congruence by SSS and SAS

CCSS.MATH.CONTENT.HSG.SRT.A.3

CCSS.MATH.CONTENT.HSG.SRT.B.5

CCSS.MATH.CONTENT.HSG.CO.B.8

4-3 Triangle Congruence by ASA and AAS

CCSS.MATH.CONTENT.HSG.SRT.A.3

CCSS.MATH.CONTENT.HSG.SRT.B.5

CCSS.MATH.CONTENT.HSG.CO.B.8

 4-4 Using Corresponding Parts of Congruent Triangles

CCSS.MATH.CONTENT.HSG.SRT.A.3

CCSS.MATH.CONTENT.HSG.SRT.B.5

CCSS.MATH.CONTENT.HSG.CO.B.7

4-5 Isosceles and Equilateral Triangles

CCSS.MATH.CONTENT.HSG.CO.C.10

CCSS.MATH.CONTENT.HSG.CO.D.13

4-6 Congruence in Right Triangles

CCSS.MATH.CONTENT.8.G.B.7

CCSS.MATH.CONTENT.HSG.SRT.B.4

CCSS.MATH.CONTENT.HSG.SRT.B.5 CCSS.MATH.CONTENT.HSG.SRT.C.6

4-7 Congruence in Overlapping Triangles

CCSS.MATH.CONTENT.HSG.SRT.A.3

CCSS.MATH.CONTENT.HSG.SRT.B.5

CCSS.MATH.CONTENT.HSG.SRT.C.6

**UNIT 5 – Relationships within Triangles**

5-1 Midsegments of Triangles

CCSS.MATH.CONTENT.8.G.A.5

CCSS.MATH.CONTENT.HSG.CO.C.9

CCSS.MATH.CONTENT.HSG.CO.C.10

CCSS.MATH.CONTENT.HSG.GPE.B.4

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

5-2 Perpendicular and Angle Bisectors

CCSS.MATH.CONTENT.HSG.CO.C.9

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

5-3 Bisectors in Triangles

CCSS.MATH.CONTENT.HSG.C.A.3

CCSS.MATH.CONTENT.HSG.CO.C.9

CCSS.MATH.CONTENT.HSG.CO.C.10

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

5-4 Medians and Altitudes

CCSS.MATH.CONTENT.HSG.CO.C.10

5-5 Indirect Proof

CCSS.MATH.CONTENT.HSG.SRT.B.4

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning of others.

CCSS.MATH.PRACTICE.MP4 Model with mathematics.

5-6 Inequalities in One Triangle

CCSS.MATH.CONTENT.HSG.SRT.B.4

5-7 Inequalities in Two Triangles  
CCSS.MATH.CONTENT.HSG.SRT.B.4

**UNIT 6 – The Polygon and Angle Sum Theorems**

6-1 The Polygon-Angle Sum Theorems

CCSS.MATH.CONTENT.HSG.CO.C.11

6-2 Properties of Parallelograms

CCSS.MATH.CONTENT.5.G.B.3

CCSS.MATH.CONTENT.5.G.B.4

CCSS.MATH.CONTENT.HSG.CO.C.11

6-3 Proving That a Quadrilateral is a Parallelogram

CCSS.MATH.CONTENT.5.G.B.3

CCSS.MATH.CONTENT.5.G.B.4

CCSS.MATH.CONTENT.HSG.CO.C.11

6-4 Properties of Rhombuses Rectangles and Squares

CCSS.MATH.CONTENT.5.G.B.3

CCSS.MATH.CONTENT.5.G.B.4

CCSS.MATH.CONTENT.HSG.CO.C.11

6-5 Conditions of Rhombuses Rectangles and Squares

CCSS.MATH.CONTENT.3.G.A.1

CCSS.MATH.CONTENT.4.G.A.2

CCSS.MATH.CONTENT.4.G.A.3

CCSS.MATH.CONTENT.5.G.B.3

CCSS.MATH.CONTENT.5.G.B.4

CCSS.MATH.CONTENT.HSG.CO.C.11

6-6 Trapezoids and Kites

CCSS.MATH.CONTENT.5.G.B.3

CCSS.MATH.CONTENT.5.G.B.4

CCSS.MATH.CONTENT.HSG.CO.C.11

6-7 Polygons in the Coordinate Plane

CCSS.MATH.CONTENT.HSG.CO.C.11

CCSS.MATH.CONTENT.HSG.GPE.B.7

CCSS.MATH.CONTENT.HSG.MG.A.1

6-8 Applying Coordinate Geometry

CCSS.MATH.CONTENT.6.G.A.3

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.B.8

CCSS.MATH.CONTENT.8.G.B.7

6-9 Proofs Using Coordinate Geometry  
CCSS.MATH.CONTENT.HSG.GPE.B.7

CCSS.MATH.CONTENT.HSG.GPE.B.4

CCSS.MATH.CONTENT.8.G.B.7

CCSS.MATH.CONTENT.8.G.B.8

**UNIT 7 – Similarity**

7-1 Ratios and Proportions

CCSS.MATH.CONTENT.6.RP.A.1

CCSS.MATH.CONTENT.6.RP.A.2

CCSS.MATH.CONTENT.6.RP.A.3

CCSS.MATH.CONTENT.7.RP.A.1

CCSS.MATH.CONTENT.7.RP.A.2

CCSS.MATH.CONTENT.7.RP.A.3

CCSS.MATH.CONTENT.8.EE.B.5

CCSS.MATH.CONTENT.HSG.GPE.B.6

CCSS.MATH.CONTENT.HSG.SRT.C.6

7-2 Similar Polygons

CCSS.MATH.CONTENT.HSG.SRT.A.2

CCSS.MATH.CONTENT.HSG.SRT.C.6

7-3 Proving Triangles Similar

CCSS.MATH.CONTENT.HSG.SRT.A.2

CCSS.MATH.CONTENT.HSG.SRT.A.3

CCSS.MATH.CONTENT.HSG.SRT.B.4

CCSS.MATH.CONTENT.HSG.SRT.B.5

CCSS.MATH.CONTENT.HSG.SRT.C.6

7-4 Similarity in Right Triangles

CCSS.MATH.CONTENT.HSG.SRT.A.2

CCSS.MATH.CONTENT.HSG.SRT.A.3

CCSS.MATH.CONTENT.HSG.SRT.B.4 CCSS.MATH.CONTENT.HSG.SRT.B.5

7-5 Proportions in Triangles

CCSS.MATH.CONTENT.HSG.SRT.A.2

CCSS.MATH.CONTENT.HSG.SRT.A.3

**UNIT 8 – Right Triangles and Trigonometry**

8-1 The Pythagorean Theorem and Its Converse

CCSS.MATH.CONTENT.8.G.B.6

CCSS.MATH.CONTENT.8.G.B.7

CCSS.MATH.CONTENT.8.G.B.8

CCSS.MATH.CONTENT.HSG.SRT.C.8

8-2 Special Right Triangles

CCSS.MATH.CONTENT.8.G.B.7

CCSS.MATH.CONTENT.HSG.SRT.B.4

CCSS.MATH.CONTENT.HSG.SRT.B.5

CCSS.MATH.CONTENT.HSG.SRT.C.8

8-3 Trigonometry

CCSS.MATH.CONTENT.HSG.SRT.C.6

CCSS.MATH.CONTENT.HSG.SRT.C.7

CCSS.MATH.CONTENT.HSG.SRT.C.8

CCSS.MATH.CONTENT.HSG.SRT.D.9

CCSS.MATH.CONTENT.HSG.SRT.D.10

8-4 Angles of Elevation and Depression

CCSS.MATH.CONTENT.8.G.B.7

CCSS.MATH.CONTENT.HSG.SRT.C.8

CCSS.MATH.CONTENT.HSG.SRT.B.4

8-5 Law of Cosines

CCSS.MATH.CONTENT.HSG.SRT.D.10 CCSS.MATH.CONTENT.HSG.SRT.D.11

8-6 Law of Sines

CCSS.MATH.CONTENT.HSG.SRT.D.10

CCSS.MATH.CONTENT.HSG.SRT.D.11

**UNIT 9 - Transformations**

9-1 Translations

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

CCSS.MATH.CONTENT.HSG.CO.A.3

CCSS.MATH.CONTENT.HSG.CO.A.4

CCSS.MATH.CONTENT.HSG.CO.A.5

9-2 Reflections

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

CCSS.MATH.CONTENT.HSG.CO.A.3

CCSS.MATH.CONTENT.HSG.CO.A.4

CCSS.MATH.CONTENT.HSG.CO.A.5

9-3 Rotations

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

CCSS.MATH.CONTENT.HSG.CO.A.3

CCSS.MATH.CONTENT.HSG.CO.A.4

CCSS.MATH.CONTENT.HSG.CO.A.5

9-4 Congruence Transformations

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.HSG.CO.A.3

CCSS.MATH.CONTENT.HSG.CO.A.4

CCSS.MATH.CONTENT.HSG.CO.A.5

 9-5 Dilations

CCSS.MATH.CONTENT.8.G.A.2

CCSS.MATH.CONTENT.8.G.A.3

CCSS.MATH.CONTENT.8.G.A.4

CCSS.MATH.CONTENT.HSG.CO.A.3

CCSS.MATH.CONTENT.HSG.CO.A.4

CCSS.MATH.CONTENT.HSG.CO.A.5

CCSS.MATH.CONTENT.HSG.SRT.A.1

CCSS.MATH.CONTENT.HSG.SRT.A.1.A

CCSS.MATH.CONTENT.HSG.SRT.A.1.B

9-6 Solving Rational Equations

CCSS.MATH.CONTENT.HSA.REI.A.2

9-7 Similarity Transformations

**CCSS.MATH.CONTENT.HSG.SRT.C.6**

**CCSS.MATH.CONTENT.HSG.SRT.A.1.B**

**CCSS.MATH.CONTENT.HSG.SRT.A.2**

**CCSS.MATH.CONTENT.HSG.SRT.A.3**

**UNIT 10 - Area**

10-1 Areas of Parallelograms and Triangles

CCSS.MATH.CONTENT.6.G.A.1

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.HSG.SRT.D.9 CCSS.MATH.CONTENT.HSG.GPE.B.7

10-2 Areas of Trapezoids, Rhombuses, and Kites

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.HSG.GPE.B.7

10-3 Areas of Regular Polygons

CCSS.MATH.CONTENT.6.G.A.1

CCSS.MATH.CONTENT.7.G.B.6

10-4 Perimeters and Areas of Similar Figures

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.HSG.SRT.B.5

10-5 Trigonometry and Area

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.HSG.SRT.D.9 CCSS.MATH.CONTENT.HSG.SRT.B.5

10-6 Circles and Arcs

CCSS.MATH.CONTENT.HSG.C.B.5

10-7 Areas of Circles and Sectors

CCSS.MATH.CONTENT.HSG.C.B.5

10-8 Geometric Probability  
CCSS.MATH.CONTENT.7.SP.C.5

**UNIT 11 – Surface Area and Volume**

11-1 Space Figures and Cross Sections

CCSS.MATH.CONTENT.7.G.A.3

CCSS.MATH.CONTENT.HSG.MG.A.1

CCSS.MATH.CONTENT.HSG.MG.A.2

CCSS.MATH.CONTENT.HSG.MG.A.3

CCSS.MATH.CONTENT.HSG.GMD.B.4

11-2 Surface Areas of Prisms and Cylinders

CCSS.MATH.CONTENT.6.G.A.4

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.7.G.A.3

CCSS.MATH.CONTENT.HSG.MG.A.1

CCSS.MATH.CONTENT.HSG.MG.A.2

CCSS.MATH.CONTENT.HSG.MG.A.3

11-3 Surface Areas of Pyramids and Cones

CCSS.MATH.CONTENT.6.G.A.4

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.7.G.A.3

CCSS.MATH.CONTENT.HSG.MG.A.1

CCSS.MATH.CONTENT.HSG.MG.A.2

CCSS.MATH.CONTENT.HSG.MG.A.3

11-4 Volumes of Prisms and Cylinders

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.HSG.GMD.A.1

CCSS.MATH.CONTENT.HSG.GMD.A.2

CCSS.MATH.CONTENT.HSG.GMD.A.3

CCSS.MATH.CONTENT.HSG.MG.A.1

CCSS.MATH.CONTENT.HSG.MG.A.2

CCSS.MATH.CONTENT.HSG.MG.A.3

11-5 Volumes of Pyramids and Cones

CCSS.MATH.CONTENT.7.G.B.6

CCSS.MATH.CONTENT.7.G.A.3

CCSS.MATH.CONTENT.8.G.C.9

CCSS.MATH.CONTENT.HSG.GMD.A.1 CCSS.MATH.CONTENT.HSG.GMD.A.2

CCSS.MATH.CONTENT.HSG.GMD.A.3

CCSS.MATH.CONTENT.HSG.MG.A.1 CCSS.MATH.CONTENT.HSG.MG.A.2

CCSS.MATH.CONTENT.HSG.MG.A.3

11-6 Surface Area and Volumes of Spheres

CCSS.MATH.CONTENT.6.G.A.4

CCSS.MATH.CONTENT.8.G.C.9

CCSS.MATH.CONTENT.HSG.GMD.A.1 CCSS.MATH.CONTENT.HSG.GMD.A.3

CCSS.MATH.CONTENT.HSG.MG.A.1 CCSS.MATH.CONTENT.HSG.MG.A.2

CCSS.MATH.CONTENT.HSG.MG.A.3

11-7 Areas and Volumes of Similar Solids  
CCSS.MATH.CONTENT.6.G.A.4

CCSS.MATH.CONTENT.6.G.A.2 CCSS.MATH.CONTENT.8.G.C.9

**UNIT 12 – Circles**

12-1 Tangent Lines

CCSS.MATH.CONTENT.HSG.C.A.4

CCSS.MATH.CONTENT.HSG.C.A.2

12-2 Chords and Arcs

CCSS.MATH.CONTENT.HSG.C.A.2

CCSS.MATH.CONTENT.HSG.C.B.5

12-3 Inscribed Angles

CCSS.MATH.CONTENT.HSG.C.A.2

12-4 Angle Measures and Segment Lengths

CCSS.MATH.CONTENT.4.MD.C.5

CCSS.MATH.CONTENT.4.MD.C.5.A

CCSS.MATH.CONTENT.4.MD.C.5.B

CCSS.MATH.CONTENT.4.MD.C.6

CCSS.MATH.CONTENT.4.MD.C.7

CCSS.MATH.CONTENT.HSG.GPE.B.6

CCSS.MATH.CONTENT.HSG.CO.A.1

12-5 Circles in the Coordinate Plane

CCSS.MATH.CONTENT.5.G.A.2

CCSS.MATH.CONTENT.HSG.GPE.A.1

CCSS.MATH.CONTENT.HSA.REI.D.10

CCSS.MATH.CONTENT.HSG.GPE.B.4

12-6 Locus A Set of Points

CCSS.MATH.CONTENT.HSG.CO.A.2

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

**CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning of others.**

**CCSS.MATH.PRACTICE.MP4 Model with mathematics.**

**CCSS.MATH.PRACTICE.MP6 Attend to precision.**

**UNIT 13 - Probability**

13-1 Experimental and Theoretical Probability

CCSS.MATH.CONTENT.7.SP.A.2

CCSS.MATH.CONTENT.7.SP.C.5

CCSS.MATH.CONTENT.7.SP.C.6

CCSS.MATH.CONTENT.7.SP.C.8.A

13-2 Probability Distributions and Frequency Tables

CCSS.MATH.CONTENT.6.SP.B.5.C

CCSS.MATH.CONTENT.7.SP.C.8.B

CCSS.MATH.CONTENT.HSS.MD.A.1

CCSS.MATH.CONTENT.HSS.MD.A.2

13-3 Permutations and Combinations

CCSS.MATH.CONTENT.HSS.CP.B.9

13-4 Compound Probability

CCSS.MATH.CONTENT.7.SP.C.8

CCSS.MATH.CONTENT.7.SP.C.8.A

CCSS.MATH.CONTENT.7.SP.C.8.B

CCSS.MATH.CONTENT.7.SP.C.8.C

13-5 Probability Models

CCSS.MATH.CONTENT.7.SP.C.7

CCSS.MATH.CONTENT.7.SP.C.7.A

CCSS.MATH.CONTENT.7.SP.C.7.B

13-6 Conditional Probability Formulas

CCSS.MATH.CONTENT.HSS.CP.A.3

CCSS.MATH.CONTENT.HSS.CP.B.6

CCSS.MATH.CONTENT.HSS.CP.B.7

CCSS.MATH.CONTENT.HSS.CP.B.8

13-7 Modeling Randomness

CCSS.MATH.CONTENT.HSS.MD.B.6

CCSS.MATH.CONTENT.HSS.MD.B.7

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning of others.  
CCSS.MATH.PRACTICE.MP4 Model with mathematics.