



## Geometry Curriculum Map – with CCSS

UNIT 1 – GEOMETRY BASICS		
1-1	<b>Nets and Drawings for Visualizing Geometry</b>	CCSS.MATH.CONTENT.6.G.A.4
1-2	<b>Points, Lines, and Planes</b>	CCSS.MATH.CONTENT.4.G.A.1 CCSS.MATH.CONTENT.HSG.CO.A.1
1-3	<b>Measuring Segments</b>	CCSS.MATH.CONTENT.HSG.GPE.B.6 CCSS.MATH.CONTENT.HSG.CO.A.1
1-4	<b>Measuring Angles</b>	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	<b>Exploring Angle Pairs</b>	CCSS.MATH.CONTENT.7.G.B.5
1-6	<b>Classifying Polygons</b>	CCSS.MATH.CONTENT.5.G.B.3 CCSS.MATH.CONTENT.5.G.B.4
1-7	<b>Midpoint and Distance in the Coordinate Plane</b>	CCSS.MATH.CONTENT.HSG.CO.C.9 CCSS.MATH.CONTENT.HSG.GPE.B.7
1-8	<b>Perimeter Circumferences and Area</b>	CCSS.MATH.CONTENT.6.G.A.3 CCSS.MATH.CONTENT.7.G.B.4 CCSS.MATH.CONTENT.HSG.GPE.B.7
1-9	<b>Construction</b>	CCSS.MATH.CONTENT.HSG.CO.D.12

UNIT 2 – REASONING AND PROOF		
2-1	<b>Inductive and Deductive Reasoning</b>	CCSS.MATH.PRACTICE.MP3
2-2	<b>Logic</b>	CCSS.MATH.PRACTICE.MP3
2-3	<b>Proving Theorems</b>	CCSS.MATH.CONTENT.HSG.CO.C.9 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.C.11
2-4	<b>Algebraic Proofs</b>	CCSS.MATH.CONTENT.HSG.CO.C.9 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.C.11



2-5	<b>Theorems About Angles and Perpendicular Lines</b>	CCSS.MATH.CONTENT.HSG.CO.C.9
2-6	<b>Planning a Proof</b>	CCSS.MATH.CONTENT.HSG.CO.C.9 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.C.11

## UNIT 3 – PARALLEL AND PERPENDICULAR LINES

3-1	<b>Identify Pairs of Lines and Angles</b>	CCSS.MATH.CONTENT.7.G.B.5 CCSS.MATH.CONTENT.HSG.CO.C.5 CCSS.MATH.CONTENT.HSG.CO.C.9
3-2	<b>Use Parallel Lines and Traversals</b>	CCSS.MATH.CONTENT.7.G.B.5 CCSS.MATH.CONTENT.HSG.CO.C.9
3-3	<b>Prove Lines Parallel</b>	CCSS.MATH.CONTENT.7.G.B.5 CCSS.MATH.CONTENT.HSG.CO.C.9
3-4	<b>Find and Use Slopes of Lines</b>	CCSS.MATH.CONTENT.8.EE.B.5 CCSS.MATH.CONTENT.8.EE.B.6 CCSS.MATH.CONTENT.HSG.GPE.B.5
3-5	<b>Write and Graph Equations of Lines</b>	CCSS.MATH.CONTENT.8.EE.B.5 CCSS.MATH.CONTENT.8.EE.B.6 CCSS.MATH.CONTENT.HSG.GPE.B.5
3-6	<b>Bonus Lesson: Prove Theorems about Perpendicular Lines</b>	CCSS.MATH.CONTENT.HSG.CO.C.9

## UNIT 4 – CONGRUENT TRIANGLES

4-1	<b>Congruent Figures</b>	CCSS.MATH.CONTENT.HSG.CO.A.2 CCSS.MATH.CONTENT.HSG.CO.A.5 CCSS.MATH.CONTENT.HSG.CO.B.6 CCSS.MATH.CONTENT.HSG.CO.B.7 CCSS.MATH.CONTENT.HSG.CO.B.8
4-2	<b>Triangle Congruency by SSS and SAS</b>	CCSS.MATH.CONTENT.HSG.CO.A.2 CCSS.MATH.CONTENT.HSG.CO.A.5 CCSS.MATH.CONTENT.HSG.CO.B.6 CCSS.MATH.CONTENT.HSG.CO.B.7 CCSS.MATH.CONTENT.HSG.CO.B.8 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.D.12



		CCSS.MATH.CONTENT.HSG.CO.D.13
4-3	<b>Triangle Congruency by ASA and AAS</b>	CCSS.MATH.CONTENT.HSG.CO.A.2 CCSS.MATH.CONTENT.HSG.CO.A.5 CCSS.MATH.CONTENT.HSG.CO.B.6 CCSS.MATH.CONTENT.HSG.CO.B.7 CCSS.MATH.CONTENT.HSG.CO.B.8 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.D.12 CCSS.MATH.CONTENT.HSG.CO.D.13
4-4	<b>Using Corresponding Parts of Congruent Triangles</b>	CCSS.MATH.CONTENT.HSG.CO.A.2 CCSS.MATH.CONTENT.HSG.CO.A.5 CCSS.MATH.CONTENT.HSG.CO.B.6 CCSS.MATH.CONTENT.HSG.CO.B.7 CCSS.MATH.CONTENT.HSG.CO.B.8 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.D.12 CCSS.MATH.CONTENT.HSG.CO.D.13
4-5	<b>Isosceles and Equilateral Triangles</b>	CCSS.MATH.CONTENT.HSG.CO.A.2 CCSS.MATH.CONTENT.HSG.CO.A.5 CCSS.MATH.CONTENT.HSG.CO.B.6 CCSS.MATH.CONTENT.HSG.CO.B.7 CCSS.MATH.CONTENT.HSG.CO.B.8 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.D.12 CCSS.MATH.CONTENT.HSG.CO.D.13
4-6	<b>Congruence in Right Angles</b>	CCSS.MATH.CONTENT.HSG.CO.A.2 CCSS.MATH.CONTENT.HSG.CO.A.5 CCSS.MATH.CONTENT.HSG.CO.B.6 CCSS.MATH.CONTENT.HSG.CO.B.7 CCSS.MATH.CONTENT.HSG.CO.B.8 CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.D.12 CCSS.MATH.CONTENT.HSG.CO.D.13
4-7	<b>Bonus Lesson: Congruence in Overlapping Triangles</b>	

UNIT 5 – RELATIONSHIPS WITH TRIANGLES		
5-1	<b>Midsegments of Triangles</b>	CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.D.12



<b>5-2</b>	<b>Perpendicular and Angle Bisectors</b>	CCSS.MATH.CONTENT.HSG.CO.C.9 CCSS.MATH.CONTENT.HSG.CO.D.12
<b>5-3</b>	<b>Bisectors in Triangles</b>	CCSS.MATH.CONTENT.HSG.CO.C.9 CCSS.MATH.CONTENT.HSG.CO.D.12
<b>5-4</b>	<b>Medians and Altitudes</b>	CCSS.MATH.CONTENT.HSG.CO.C.10
<b>5-5</b>	<b>Indirect Proof</b>	CCSS.MATH.CONTENT.HSG.CO.C.10 CCSS.MATH.CONTENT.HSG.CO.D.12
<b>5-6</b>	<b>Inequalities in One Triangle</b>	CCSS.MATH.CONTENT.HSG.CO.C.10
<b>5-7</b>	<b>Inequalities in Two Triangles</b>	CCSS.MATH.CONTENT.HSG.CO.C.10

## UNIT 6 – THE POLYGON-ANGLE SUM THEOREMS

<b>6-1</b>	<b>The Polygon-Angle Sum Theorems</b>	CCSS.MATH.CONTENT.HSG.CO.C.11
<b>6-2</b>	<b>Properties of Parallelograms</b>	CCSS.MATH.CONTENT.HSG.CO.C.11
<b>6-3</b>	<b>Proving that a Quadrilateral is a Parallelogram</b>	CCSS.MATH.CONTENT.HSG.CO.C.11
<b>6-4</b>	<b>Properties of Rhombus Rectangles and Squares</b>	CCSS.MATH.CONTENT.HSG.CO.C.11
<b>6-5</b>	<b>Conditions of Rhombuses, Rectangles and Squares</b>	CCSS.MATH.CONTENT.HSG.CO.C.11
<b>6-6</b>	<b>Trapezoids and Kites</b>	CCSS.MATH.CONTENT.HSG.CO.C.11
<b>6-7</b>	<b>Polygons in the Coordinate Plane</b>	CCSS.MATH.CONTENT.HSG.CO.C.11 CCSS.MATH.CONTENT.HSG.GPE.B.7 CCSS.MATH.CONTENT.HSG.MG.A.1 CCSS.MATH.CONTENT.HSG.CO.D.12
<b>6-8</b>	<b>Applying Coordinate Geometry</b>	CCSS.MATH.CONTENT.HSG.CO.C.11 CCSS.MATH.CONTENT.HSG.MG.A.1 CCSS.MATH.CONTENT.HSG.GPE.B.4
<b>6-9</b>	<b>Proofs Using Coordinate Geometry</b>	CCSS.MATH.CONTENT.HSG.CO.C.11 CCSS.MATH.CONTENT.HSG.MG.A.1 CCSS.MATH.CONTENT.HSG.GPE.B.4

## UNIT 7 – SIMILARITY



<b>7-1</b>	<b>Ratios and Proportions</b>	CCSS.MATH.CONTENT.6.RP.A.1
<b>7-2</b>	<b>Similar Polygons</b>	CCSS.MATH.CONTENT.HSG.SRT.A.2
<b>7-3</b>	<b>Proving Triangles are Similar</b>	CCSS.MATH.CONTENT.HSG.SRT.A.2 CCSS.MATH.CONTENT.HSG.SRT.A.3
<b>7-4</b>	<b>Similarity in Right Triangles</b>	CCSS.MATH.CONTENT.HSG.SRT.B.4 CCSS.MATH.CONTENT.HSG.SRT.B.5
<b>7-5</b>	<b>Proportions in Triangles</b>	CCSS.MATH.CONTENT.HSG.SRT.B.4 CCSS.MATH.CONTENT.HSG.SRT.B.5

UNIT 8 – RIGHT TRIANGLES AND TRIGONOMETRY		
<b>8-1</b>	<b>The Pythagorean Theorem and its Converse</b>	CCSS.MATH.CONTENT.8.G.B.6 CCSS.MATH.CONTENT.8.G.B.7
<b>8-2</b>	<b>Special Right Angles</b>	CCSS.MATH.CONTENT.HSG.SRT.C.6 CCSS.MATH.CONTENT.8.G.B.7
<b>8-3</b>	<b>Trigonometry</b>	CCSS.MATH.CONTENT.HSG.SRT.6 CCSS.MATH.CONTENT.HSG.SRT.C.7
<b>8-4</b>	<b>Angles of Elevation and Depression</b>	CCSS.MATH.CONTENT.HSG.SRT.C.6 CCSS.MATH.CONTENT.HSG.SRT.C.7
<b>8-5</b>	<b>Law of Cosines</b>	CCSS.MATH.CONTENT.HSG.SRT.D.10 CCSS.MATH.CONTENT.HSG.SRT.D.11
<b>8-6</b>	<b>Law of Sines</b>	CCSS.MATH.CONTENT.HSG.SRT.D.10 CCSS.MATH.CONTENT.HSG.SRT.D.11

UNIT 9 – TRANSFORMATIONS		
<b>9-1</b>	<b>Translations</b>	CCSS.MATH.CONTENT.HSG.SRT.A.3
<b>9-2</b>	<b>Reflections</b>	CCSS.MATH.CONTENT.HSG.SRT.A.3
<b>9-3</b>	<b>Rotations</b>	CCSS.MATH.CONTENT.HSG.SRT.A.3
<b>9-4</b>	<b>Congruence Transformations</b>	CCSS.MATH.CONTENT.HSG.SRT.A.3
<b>9-5</b>	<b>Dilations</b>	CCSS.MATH.CONTENT.HSG.SRT.A.3
<b>9-6</b>	<b>Solving Rotational Equations</b>	CCSS.MATH.CONTENT.HSG.SRT.A.3
<b>9-7</b>	<b>Similarity Transformations</b>	CCSS.MATH.CONTENT.HSG.SRT.A.3



UNIT 10 – AREA		
10-1	<b>Areas of Parallelograms and Triangles</b>	CCSS.MATH.CONTENT.6.G.A.1 CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.HSG.GPE.B.7
10-2	<b>Areas of Trapezoids, Rhombuses and Kites</b>	CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.HSG.GPE.B.7
10-3	<b>Areas of Regular Polygons</b>	CCSS.MATH.CONTENT.6.G.A.1 CCSS.MATH.CONTENT.7.G.B.6
10-4	<b>Perimeter and Area of Similar Figures</b>	CCSS.MATH.CONTENT.HSG.SRT.B.5 CCSS.MATH.CONTENT.7.G.B.6
10-5	<b>Trigonometry and Area</b>	CCSS.MATH.CONTENT.HSG.SRT.B.5 CCSS.MATH.CONTENT.7.G.B.6
10-6	<b>Circles and Arcs</b>	CCSS.MATH.CONTENT.HSG.C.B.5
10-7	<b>Areas of Circles and Sectors</b>	CCSS.MATH.CONTENT.HSG.C.B.5
10-8	<b>Geometric Probability</b>	CCSS.MATH.CONTENT.7.SP.C.5

UNIT 11 – SURFACE AREA AND VOLUME		
11-1	<b>Splicing Figures and Cross Sections</b>	CCSS.MATH.CONTENT.HSG.GMD.B.4 CCSS.MATH.CONTENT.1.G.A.2
11-2	<b>Surface Areas of Cylinders and Prisms</b>	CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.6.G.A.4
11-3	<b>Surface Areas of Pyramids and Cones</b>	CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.6.G.A.4
11-4	<b>Volumes of Prisms and Cylinders</b>	CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.6.G.A.4
11-5	<b>Volume of Pyramids and Cones</b>	CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.6.G.A.4
11-6	<b>Surface Areas and Volumes of Spheres</b>	CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.8.G.C.9
11-7	<b>Areas and Volumes of Similar Solids</b>	CCSS.MATH.CONTENT.7.G.B.6 CCSS.MATH.CONTENT.8.G.C.9

## UNIT 12 – CIRCLES



<b>12-1</b>	<b>Tangent Lines</b>	CCSS.MATH.CONTENT.HSG.C.A.4
<b>12-2</b>	<b>Chords and Arcs</b>	CCSS.MATH.CONTENT.HSG.C.A.2
<b>12-3</b>	<b>Inscribed Angles</b>	CCSS.MATH.CONTENT.HSG.C.A.2
<b>12-4</b>	<b>Angle Measures and Segment Lengths</b>	CCSS.MATH.CONTENT.HSG.C.A.2
<b>12-5</b>	<b>Circles in the Coordinate Plane</b>	CCSS.MATH.CONTENT.HSG.C.A.2
<b>12-6</b>	<b>Locus A Set of Points</b>	CCSS.MATH.CONTENT.HSG.C.A.2

UNIT 13 – PROBABILITY		
<b>13-1</b>	<b>Experimental and Theoretical Probability</b>	CCSS.MATH.CONTENT.7.SP.C.5
<b>13-2</b>	<b>Probability Distributions and Frequency Tables</b>	CCSS.MATH.CONTENT.7.SP.C.6
<b>13-3</b>	<b>Permutations and Combinations</b>	CCSS.MATH.CONTENT.HSS.CP.A.1
<b>13-4</b>	<b>Compound Probability</b>	CCSS.MATH.CONTENT.HSS.CP.A.1 CCSS.MATH.CONTENT.HSS.CP.B.7
<b>13-5</b>	<b>Probability Models</b>	CCSS.MATH.CONTENT.7.SP.C.7 CCSS.MATH.CONTENT.7.SP.C.7.A CCSS.MATH.CONTENT.7.SP.C.7.B
<b>13-6</b>	<b>Conditional Probability Formulas</b>	CCSS.MATH.CONTENT.HSS.CP.B.6 CCSS.MATH.CONTENT.HSS.CP.B.7 CCSS.MATH.CONTENT.HSS.CP.B.8 CCSS.MATH.CONTENT.HSS.CP.B.9
<b>13-7</b>	<b>Modeling Randomness</b>	CCSS.MATH.CONTENT.HSS.MD.A.1 CCSS.MATH.CONTENT.HSS.MD.A.2 CCSS.MATH.CONTENT.HSS.MD.A.3 CCSS.MATH.CONTENT.HSS.MD.A.4