GSE Geometry

Curriculum Map

1st Semester			2nd Semester		
Unit 1 *(2 – 3 weeks)*	**Unit 2 & Unit 5** *(14 – 15 weeks)*		**Unit 3** *(3 – 4 weeks)*	**Unit 4** *(6 – 7 weeks)*	**Unit 6** *(4 – 5 weeks)*
Transformations in the Coordinate Plane	**Similarity, Congruence, and Proofs Geometric and Algebraic Connections**		**Right Triangle Trigonometry**	**Circles and Volume**	**Applications of Probability**
• Transformation Vocabulary • Reflections • Translations • Rotations • Combinations of Transformations • Symmetry • Dilations	• Geometry Basics/Vocabulary • Segment Addition Postulate • Construct Congruent Segments • Pythagorean Theorem and Distance Formula • Midpoints/Segment Bisectors • Construct Perpendicular Bisectors/Midpoints • Partitioning Segments • Angle Basics/Angle Addition Postulate • Construct Congruent Angles • Angle Relationships • Parallel Lines/Transversals • Slopes/Parallel/Perp. Lines • Construct Parallel/Perp. Lines • Classifying Triangles • Triangle Coordinate Proofs • Triangle Sum Theorem • Exterior Angle Theorem • Congruent Triangles • Isosceles Triangle Theorem	• Triangle Midsegment Theorem • Construct Angle Bisectors • Special Segments in Triangles/Triangle Centers • Construct Triangle Centers • Triangle Inequality Theorem • Hinge Theorem • Polygons • Parallelograms • Parallelogram Coordinate Proofs • Ratios/Proportions Review • Similar Triangles/Figures • Triangle Proportionality Theorem	• Geometric Mean • Pythagorean Theorem • Special Right Triangles • Trigonometric Ratios Derived from Similarity • Writing Trig Ratios • Complementary Angles • Finding Missing Sides • Missing Side Applications • Writing Trig Inverse Ratios • Finding Missing Angles • Missing Angle Applications	• Vocabulary/Parts of Circles • Similarity with Circles • Circumference and Pi • Arc Length/Radians • Central Angles and Arcs • Inscribed Angles and Arcs • Inscribed Quadrilaterals • Construct Square Inscribed in Circle • Angles Inside/Outside Circle (Vertex Not at Center) • Tangents/Construct Tangents • Other Segment Lengths/Applications • Area of Circles/Sectors • Circle Conic Equations • Circle Coordinate Proofs • Remaining Circle Constructions (Inscribed and Circumscribed Triangles; Equilateral Triangles and Hexagons Inscribed in Circles). • Cavalieri's Principle • Volume Formulas • Cross Sections • Geometric Modeling	• Set Notation • Venn Diagrams • Addition Rule • Conditional Probability • Mutually Exclusive/Overlapping • Independence and Dependence
MGSE9-12.G.CO.1 **MGSE9-12.G.CO.2** **MGSE9-12.G.CO.3** **MGSE9-12.G.CO.4** **MGSE9-12.G.CO.5** **MGSE9-12.G.SRT.1**	**MGSE9-12.G.CO.6** **MGSE9-12.G.CO.7** **MGSE9-12.G.CO.8** **MGSE9-12.G.CO.9** **MGSE9-12.G.CO.10** **MGSE9-12.G.CO.11** **MGSE9-12.G.CO.12** **MGSE9-12.G.CO.13** **MGSE9-12.G.GPE.4** **MGSE9-12.G.GPE.5** **MGSE9-12.G.GPE.6** **MGSE9-12.G.GPE.7**	**MGSE9-12.G.SRT.2** **MGSE9-12.G.SRT.3** **MGSE9-12.G.SRT.4** **MGSE9-12.G.SRT.5**	**MGSE9-12.G.SRT.6** **MGSE9-12.G.SRT.7** **MGSE9-12.G.SRT.8**	**MGSE9-12.G.C.1** **MGSE9-12.G.C.2** **MGSE9-12.G.C.3** **MGSE9-12.G.C.4** **MGSE9-12.G.C.5** **MGSE9-12.G.GPE.1** **MGSE9-12.G.GMD.1** **MGSE9-12.G.GMD.2** **MGSE9-12.G.GMD.3** **MGSE9-12.G.GMD.4** **MGSE9-12.G.MG.1** **MGSE9-12.G.MG.2** **MGSE9-12.G.MG.3**	**MGSE9-12.S.CP.1** **MGSE9-12.S.CP.2** **MGSE9-12.S.CP.3** **MGSE9-12.S.CP.4** **MGSE9-12.S.CP.5** **MGSE9-12.S.CP.6** **MGSE9-12.S.CP.7**

These units were written to build upon concepts from prior units, so later units contain tasks that depend upon the concepts addressed in earlier units.
All units will include the Mathematical Practices and indicate skills to maintain.