UNIT	COMMON CORE CLUSTERS AND STANDARDS	MATHEMATICAL PRACTICE
UNIT 1 **Congruence and Transformation**	• Experiment with transformation in the plane. G-CO.1,2,3,4,5 • Understand congruence in terms of rigid motions. G-CO.6,7,8 • Prove geometric theorems. G-CO. 9,10,11 • Make geometric constructions G-CO.12,13	∈ **Make sense of problems and persevere in solving them**. MP.1
UNIT 2 **Similarity, Right Triangles and Trigonometry**	• Understand similarity in terms of similarity transformations. G-SRT.1,2,3 • Prove theorems involving similarity. G-SRT.4,5 • Define trigonometric ratios and solve problems involving right triangles. G-SRT.6,7,8	∈ Reason abstractly and quantitatively. MP.2
UNIT 3 **Modeling Geometric Measurement and Dimensions**	• Explain volume formulas and use them to solve problems. G-GMD.1,3 • Visualize the relation between two-dimensional and three dimensional objects. G-GMD.4 • Apply geometric concepts in modeling situations. G-MG.1,2,3	∈ Construct viable arguments and critique the reasoning of others. MP.3
UNIT 4 **Connecting Algebra to Geometry**	• Use coordinates to prove simple geometric theorems algebraically. G-GPE.4,5,6,7 • Translate between the geometric description and the equation for a conic section. G-GPE.1,2	∈ **Model with mathematics**. ★ MP.4 ∈ Use appropriate tools strategically. MP.5
UNIT 5 **Circles**	• Understand and apply theorems about circles. G-C.1,2,3 • Find arc lengths and areas of sectors of circles. G-C.5 • Translate between the geometric description and the equation for a conic section. G-GPE.2 • Use coordinates to prove simple geometric theorem algebraically. G-GPE.4 • Apply geometric concepts in modeling situations. ★ G-MG.1	∈ Attend to precision. MP.6 ∈ Look for and make use of structure. MP.7 ∈ Look for and express regularity in repeated reasoning. MP.6

Major Content Supporting Content Additional Content