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| Course Name | | Geometry | | Grade Level | High School |
| Geometry Common Core State Standards | | | | | |
| Conceptual Category | Domain | | Cluster/Essential Learning Goal | | |
| Geometry | Congruence (G-CO) | | ELG.MA.HS.G.1: Experiment with transformations in the plane. | | |
| ELG.MA.HS.G.2: Understand congruence in terms of rigid motions. | | |
| ELG.MA.HS.G.3: Prove geometric theorems. | | |
| ELG.MA.HS.G.4: Make geometric constructions. | | |
| Similarity, Right Triangles, and Trigonometry (G-SRT) | | ELG.MA.HS.G.5: Understand similarity in terms of similarity transformations. | | |
| ELG.MA.HS.G.6: Prove theorems involving similarity. | | |
| ELG.MA.HS.G.7: Define trigonometric ratios and solve problems involving right triangles. | | |
| Circles (G-C) | | ELG.MA.HS.G.9: Understand and apply theorems about circles. | | |
| ELG.MA.HS.G.10: Find arc lengths and areas of sectors of circles. | | |
| Expressing Geometric Properties with Equations (G-GPE) | | ELG.MA.HS.G.11: Translate between the geometric description and the equation for a conic section. | | |
| ELG.MA.HS.G.12: Use coordinates to prove simple geometric theorems algebraically. | | |
| Geometric Measurement and Dimension (G-GMD) | | ELG.MA.HS.G.13: Explain volume formulas and use them to solve problems. | | |
| ELG.MA.HS.G.14: Visualize relationships between two-dimensional and three-dimensional objects. | | |
| Modeling with Geometry star (G-MG) | | ELG.MA.HS.G.15: Apply geometric concepts in modeling situations. | | |