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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.  |