**Geometry**

**Learning Goals**

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| **#** | **Learning Goal** | **Standard(s)** |
| G01 | Experiment with transformations in the plane. | G-CO.1.1, G-CO.1.2,  G-CO.1.3, G-CO.1.4,  G-CO.1.5 |
| G02 | Understand congruence in terms of rigid motions. | G-CO.2.6, G-CO.2.7,  G-CO.2.8 |
| G03 | Prove geometric theorems. | G-CO.3.9, G-CO.3.10,  G-CO.3.11 |
| G04 | Make geometric constructions. | G-CO.4.12, G-CO.4.13 |
| G05 | Understand and apply theorems about circles. | G-C.1.1, G-C.1.2,  G-C.1.3 |
| G06 | Find arc lengths and areas of sectors of circles and derive the equation of a circle on a coordinate plane. | G-C.2.5, G-GPE.1.1 |
| G07 | Use coordinates to prove simple geometric theorems algebraically. | G-GPE.2.4, G-GPE.2.5,  G-GPE.2.6, G-GPE.2.7 |
| G08 | Explain volume formulas and use them to solve problems and visualize relationships between 2D and 3D objects. | G-GMD.1.1, G-GMD.1.3, G-GMD2.4 |
| G09 | Apply geometric concepts in modeling situations. | G-MG.1.1, G-MG.1.2,  G-MG.1.3 |
| G10 | Understand similarity in terms of similarity transformations. | G-SRT.1.1, G-SRT.1.2,  G-SRT.1.3 |
| G11 | Prove theorems involving similarity. | G-SRT.2.4, G-SRT.2.5 |
| G12 | Define trigonometric ratios and solve problems involving right triangles. | G-SRT.3.6, G-SRT.3.7,  G-SRT.3.8 |